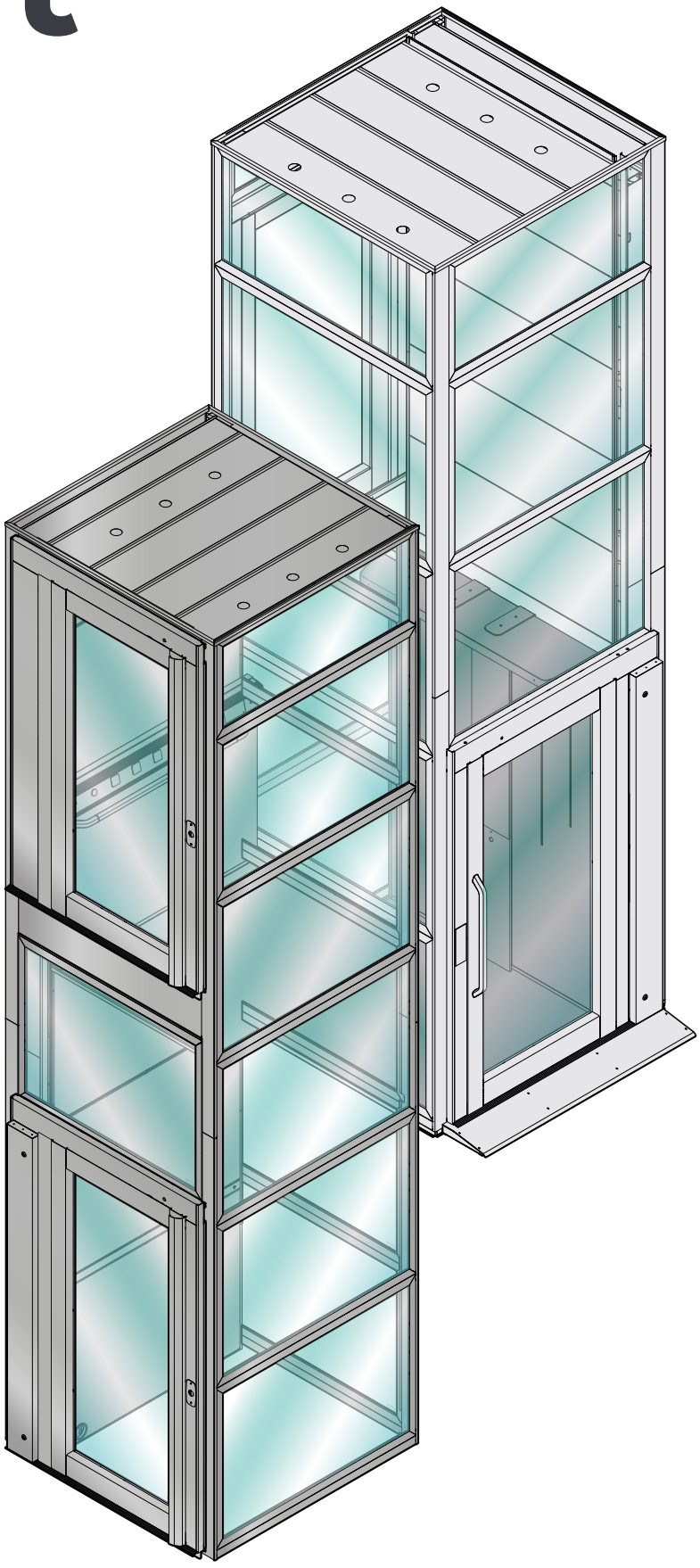
EN

DomoFlex® and IconLift®

Electric screw driven platform lift

INSTALLATION AND COMMISSIONING INSTRUCTIONS

(Rev.4.2)



sample image

AREALIFTING®
THE VERTICAL MOBILITY MANUFACTURER

20250410

4.0	Fully revised edition	18.02.2025
Rev.	*Description*	*Date*

TABLE OF CONTENTS

1. Manual reading guide

IMPORTANT!

EN: Translation of the original instructions
This product may only be commissioned if these instructions are available to you in an official EU language that you understand and you have understood the contents.
If this is not the case, please contact your Lifting Italia S.r.l. contact partner.

READ THIS MANUAL CAREFULLY
BEFORE INSTALLING AND USING THE PRODUCT
Retain the technical documentation near the lifting platform for the entire lifecycle of the product. In case of change of ownership, the technical documentation must be provided to the new user as an integral part of the product.

1.01. Preliminary information

NOTICE

This product must be installed and put into operation according to the provisions and regulations in force. Improper installation or improper use of the product can cause damage to people and property, as well as cause the warranty to lapse.

FOLLOW THE SUGGESTIONS AND RECOMMENDATIONS TO OPERATE IN SAFETY.
Any unauthorized modification can compromise the safety of the system, as well as the correct operation and the life of the machine. If you have any doubts regarding the correct understanding of the information and contents contained in this manual, contact LIFTING ITALIA S.r.l. immediately.

QUALIFIED PERSONNEL.
The product covered by this documentation can only be installed by qualified personnel, in compliance with the attached technical documentation, above all in compliance with the safety warnings and the precautions contained therein.

Technical specifications may be subject to change without notice due to product improvement development.
The drawings included in this manual are to be considered as indicative and are NOT an exact reference to the product concerned.

1.02. Personal security and risk recognition

This manual contains safety rules that must be observed to safeguard personal safety and to prevent damage to the property.

The indications to be followed to guarantee personal safety are highlighted by a triangle symbol while those to avoid material damage are not preceded by the triangle. The hazard warnings are shown as follows and indicate the different levels of risk in descending order.

RISK CLASSIFICATION AND RELATIVE GRAVITY OF DAMAGE		
DANGER!	The symbol indicates that the failure to comply with appropriate safety measures causes death or serious physical injury.	RISK LEVEL
WARNING	The symbol indicates that the failure to observe the corresponding safety measures can cause death or serious personal injury.	
CAUTION	The symbol indicates that failure to observe the relevant safety measures can cause minor or moderate personal injury or damage to the device.	
NOTICE	It is not a symbol of security. It indicates that the failure to comply with relevant safety measures can result in property damage.	
INFORMATION	It is not a symbol of security. It indicates important information.	

If there are multiple levels of risk, the danger warning always indicates the highest one. If a warning is drawn with a triangle to warn to the risk of injury to persons, the risk of possible property damage may also be caused at the same time.

WARNING	
	During installation / maintenance of the platform, the safety functions are temporarily suspended. Therefore all necessary precautions must be taken to avoid personal injury and / or damage to the product.

2. Safety and information Signs

2.01. DANGER Signs


GENERAL DANGER


ELECTRICITY DANGER


DANGER FLAMMABLE MATERIAL


DANGER OF FALL BY A LEVEL


DANGER SUSPENDED LOADS


DANGER OF CRUSHING

2.02. PROHIBITION Signs


GENERIC PROHIBITION


FORBIDDEN TO STEP ON


PROHIBITED TO WALK ON OR STOP IN THIS AREA

2.03. MANDATORY Signs


OBLIGATIORY TO WEAR THE PROTECTION HELMET


OBLIGATORY TO WEAR SAFETY SHOES


OBLIGATORY WEAR THE PROTECTIVE GLOVES


OBLIGATORY TO WEAR EYE PROTECTION


OBLIGATION TO WEAR THE AUDIO PROTECTION

2.04. Information symbols and infographics


MARK


DRILL AND/OR SCREW


CUTTING AND/OR GRINDING


MEASURE


APPLY RIVETS


USE SUCTION CUPS


USE THE HAMMER


LEVELING


USE HOIST

	**INFORMATION** Symbol that identifies information that is useful to the installer but is not mandatory for the installation, nor does it pose a risk to the user..
	**IMPORTANT!** Symbol that identifies important information to be scrupulously observed.
	**ELECTRICAL CONNECTIONS** Symbol that identifies the connection of an electrical component.

3. Liability and warranty conditions

RESPONSIBILITY OF THE INSTALLER	
IMPORTANT!	
	Installers are responsible for ensuring compliance with safety procedures at work and any health and safety regulations in force in the country and on the site where the assembly is carried out.
	The persons authorized to carry out installation, maintenance, and rescue operations are those in possession of an elevator maintenance authorization certificate, issued according to the regulations in force in the country where the assembly is carried out.

The elevator / platform (and each of its components) is produced and intended to be installed as described in the attached project drawing and in this manual; any divergence from the prescribed procedure may affect the operation and safety of the system and cause the immediate cancellation of the warranty.
Any modification or variation made to the project and the to the assembly Instructions must be documented in detail and referred to LIFTING ITALIA S.r.l., in order to allow the company an adequate assessment. Under no circumstances can a modified system be activated without the express authorization of LIFTING ITALIA S.r.l.
The elevator / platform must only be used in the way envisaged by the system and illustrated in the relative manuals (transportation of people and / or things, maximum loads, cycles of use, etc.). LIFTING ITALIA S.r.l. assumes no responsibility for damage to persons and property caused by improper use of the system.

	Pictures and images on this manual are for illustration purposes only.

3.01. Legal warranty and its free extension up to 60 months

The manufacturer warrants the lift under the condition that the instructions in the installation and current maintenance manual of the machine are strictly followed.
The lift has a legal warranty of 1 year and a free extension for a further 4 years according to the following conditions and exclusions:

A. The period of legal warranty of the product is 12 months from the date of the 'Goods Ready' notice.

The warranty does not cover:
- ordinary maintenance and adjustment activities;
- normal wear and tear of items such as, but not limited to: shoe seals (arch, doors), hydraulic cylinder and valve unit seals, transmission belts, brakes, batteries, lamps, LED strips, rolling bearings, electric motors subject to belt pull, idler pulleys, push buttons (after 12 months from commissioning), oils and lubricants, dulling of paintwork, glass and mirrors arrived on site in undamaged packaging.

The warranty does not cover damage caused by:
- abnormal use, incorrect operation, improper service, alteration or removal of parts, use of the lift not in line with the recommended operation and work cycle, incorrect installation i.e. not in accordance with the installation manual; use of parts or accessories that are not original or authorised by AreaLifting; use of oils or lubricants other than those indicated by the manufacturer, installation in an environment or application not in line with the manufacturer's recommendations, incorrect maintenance or repair, failures due to insufficient power supply, fortuitous events or force majeure.

B. The Warranty shall be effective if the defects are reported within 2 weeks of their actual discovery. The Seller reserves the right to repair or replace the defective part at their sole discretion. The Seller shall bear the transport costs of the defective part but reserves the right to charge for the same if it is found not to be defective or not subject to warranty. Excluded from Warranty and/or reimbursement are customs duties and any additional charges resulting from the uninstallation and subsequent restoration of the defective part on the lift.

C. The Warranty on the machine will be extended free of charge, for a period of a further 48 months beyond the legal warranty period, when:
- the product is installed by a customer who is registered on the Seller's 'Warranty' portal;
- the purchaser has carried out training provided by the Seller, or undertakes to do so within a period of 12 months from the purchase order;.
- the Sentinel module is continuously connected - wireless or GSM - once the lift has been put into service, if it is equipped as standard. If, on the other hand, it is not equipped, the Buyer must manually register it on the Warranty Portal. Should the Seller be requested to activate the GSM SIM card, the Seller shall only activate it upon payment of the relevant five-year fee.
- the lift is regularly maintained according to the instructions in the Maintenance Manual.

4. General requirements and installation site management

4.01. General requirements

IMPORTANT!

For more information on safety, liability and warranty conditions, receipt and storage of material on site, packaging, waste disposal, cleaning and storage of the product; refer to the “SAFETY INSTRUCTIONS AND SITE MANAGEMENT” manual.

NOTICE

PRELIMINARY CHECKS.
Once the packaging has been opened, check that the product is intact and has not been damaged during transport. Should any anomalies or damage be found, please dispatch them in writing on the transport document to the transport company, giving written notice to LIFTINGITALIA S.r.l.

WARNING

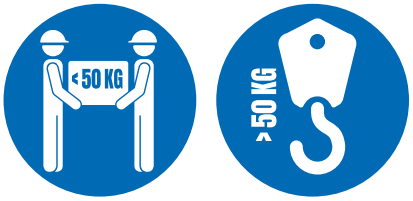
SAFETY AND SITE MANAGEMENT - OVERALL DISPOSITIONS:

4. Always secure tools and any objects against falling;
5. Pay the utmost attention to all the steps described in this;
6. While assembling the parts making up the system or after installation, be careful of any sharp burrs (machining residues).

- Before proceeding with the installation, it is necessary to remove any rubble and material deposited during the construction of the shaft.
- Only nuts and bolts included in the supply must be used.
- The bags containing the screws must be opened in correspondence with the respective operating phases indicated in this manual.
- The instructions described in this manual refer to a reinforced shaft, to a fastening with mechanical expansion plugs of the stud type. For the use of plugs in masonry other than the reinforced concrete see the attachment to this manual. For the shafts with metal framework, we proceed by replacing the plugs with normal screws.
- In these instructions and on the wiring diagram, the stops are indicated with 0, 1, (2, 3 etc.), meaning “0” the lowest stop: the numbers on the push-button panels may be different according to the user’s needs (for example - 1, 0, etc.)..

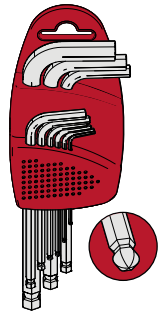
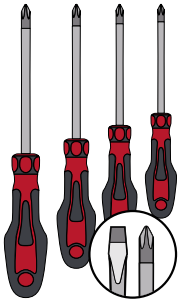
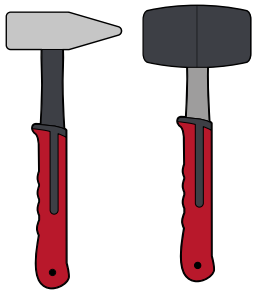
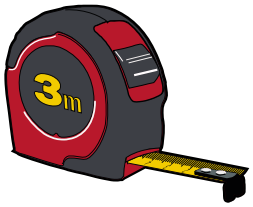
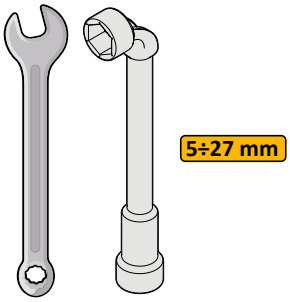
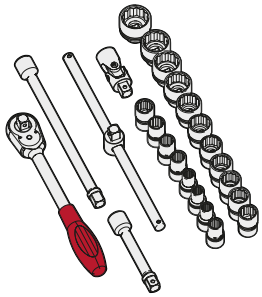
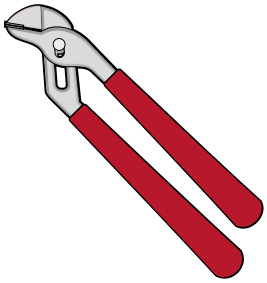
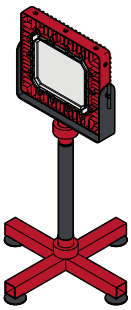
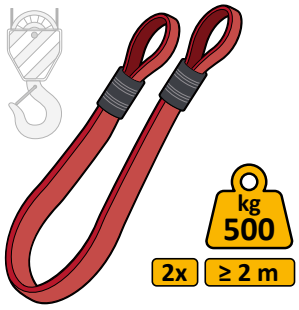
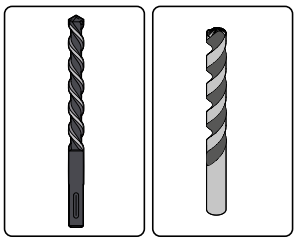
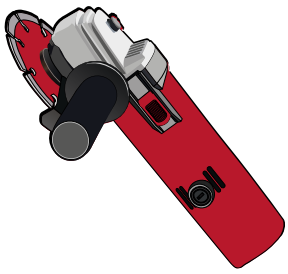
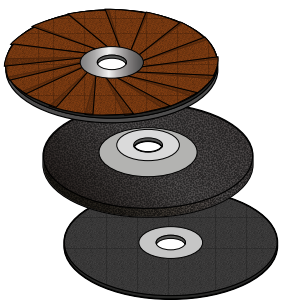
CAUTION

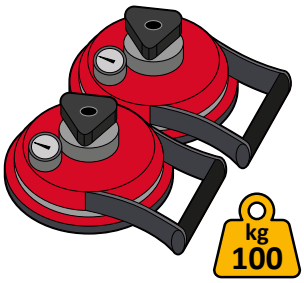
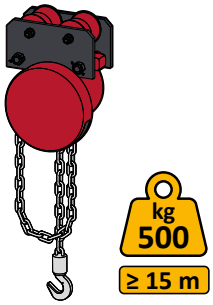
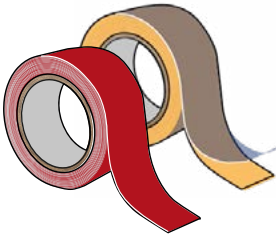
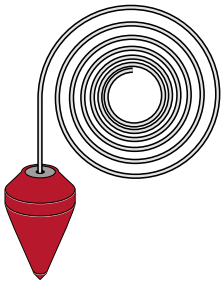
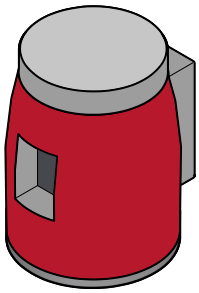
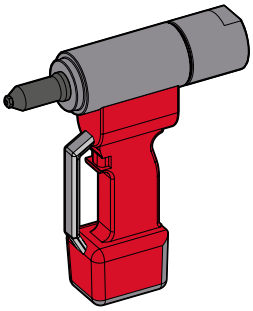
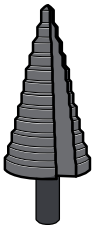
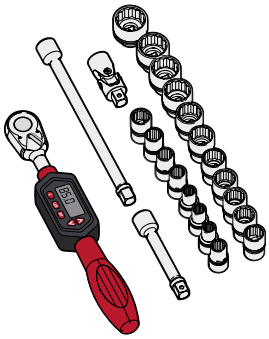
The assembly must be performed by a MINIMUM 2 people



Use a suitable lifting equipment for handling the components if the load is greater than 50kg

5. Tools required for installation

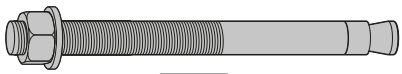
BALL POINT LONG HEX KEY WRENCH	ELECTRICIAN SCREWDRIVER SET	HAMMER + RUBBER HAMMER	TAPE MEASURE
			
SPIRIT LEVEL	SCISSORS FOR ELETTRICIANS	SPANNER + SOCKET WRENCH	RACKETING RING SPANNER SET
			
PLIERS WRENCH	PORTABLE LAMP	SAFETY LADDER 5 STEPS	LIFTING BELTS
			
DRILL + ELECTRIC SCREWDRIVER	DRILL BITS	CORNER GRINDER	CUT-OFF AND GRINDING WHEELS
			

VACUUM LIFTER WITH MANOMETER	MANUAL HOIST	INSULATING TAPE + DOUBLE-SIDED ADHESIVE	PLUMB BOB
			
DIGITAL MULTIMETER	**LASER LEVEL**	**CORDLESS RIVETER GUN**	**HSS STEP DRILL BIT**
			
TORQUE WRENCH SET WITH EXAGONAL INSERT	**HOLESAW FOR METAL**		
			

6. Box content - screws kit

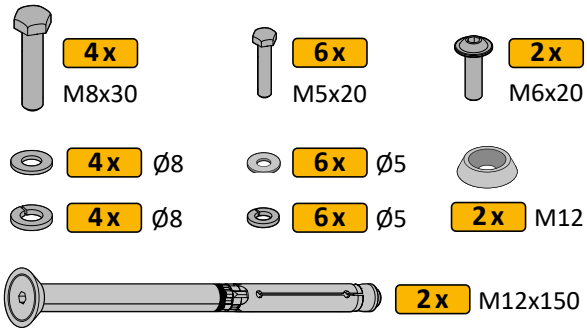
Each box with its identification code represents how many pieces per item are contained in each package (KIT).

F353.23.0001



10 x M12x125

F353.23.0002



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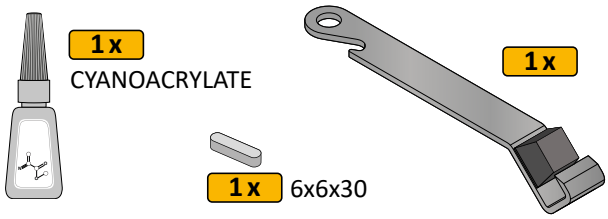

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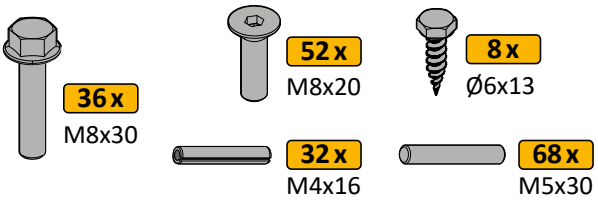

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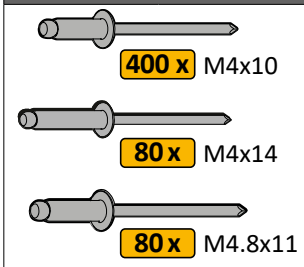

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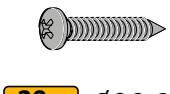
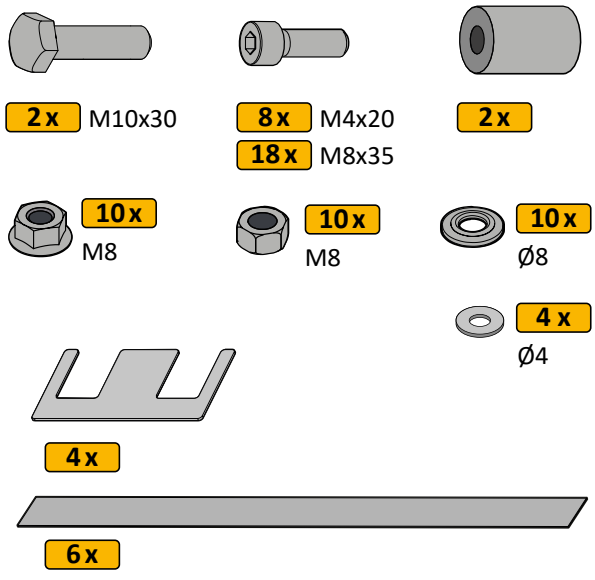


30 x Ø6,3x38

F353.23.0006



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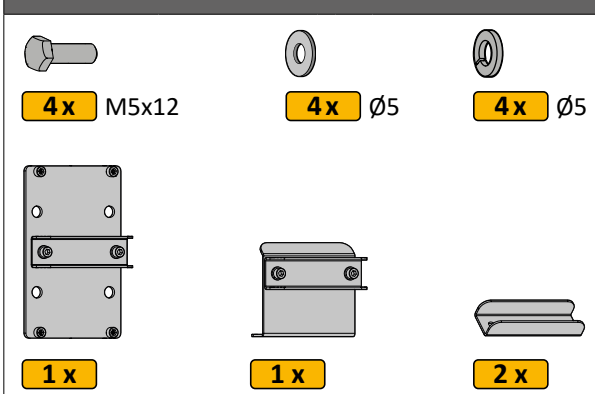

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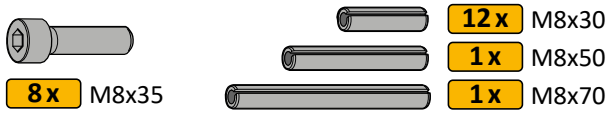


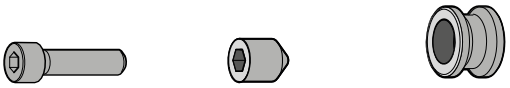
8 x M8x35

12 x M8x30

1 x M8x50

1 x M8x70

D003.23.0001

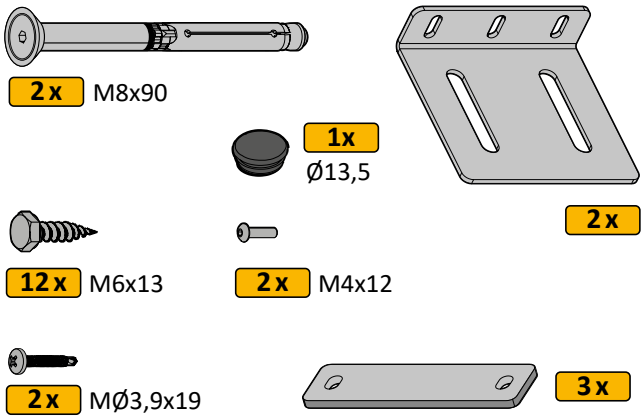


2 x M6x20

2 x M8x10

2 x

F353.23.0010



2 x M8x90

1x Ø13,5

2 x

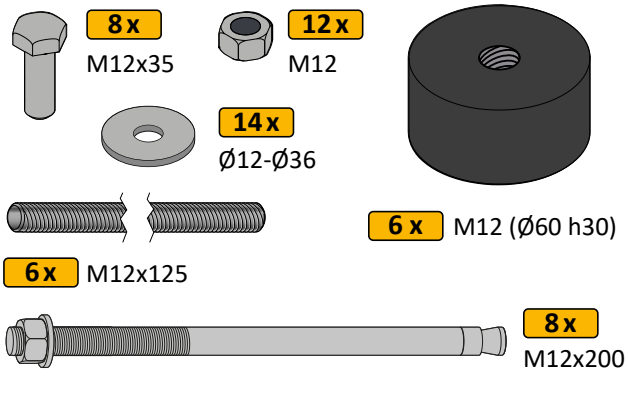
12 x M6x13

2 x M4x12

2 x MØ3,9x19

3 x

F353.23.0009



8 x M12x35

12 x M12

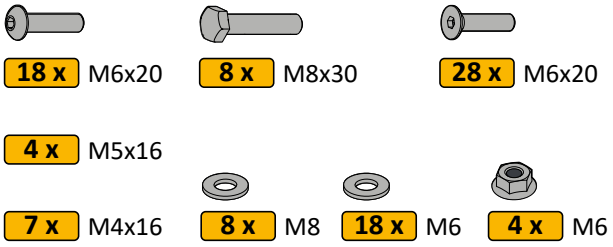
14 x Ø12-Ø36

6 x M12 (Ø60 h30)

6 x M12x125

8 x M12x200

F353.23.0018 (IconliFt)



18 x M6x20

8 x M8x30

28 x M6x20

4 x M5x16

7 x M4x16

8 x M8

18 x M6

4 x M6

10 x M4,2x20

NOTICE

FOLLOW THE TIGHTENING TORQUES INDICATED FOR THREADED COUPLINGS.
In order to avoid the risk of bolt or component loosening or stress, with a deformation and breakage risk, please follow the screw tightening torques indicated in the table.

TIGHTENING TORQUE GUIDE		
SCREW	COUPLE MAX (Nm)	COUPLE MIN (Nm)
M3	1.2	1.0
M4	2.6	2.1
M5	5.1	4.1
M6	9.0	7.0
M8	21.0	17.0
M10	42.0	34.0
M12	71.0	57.0
M16	175.0	145.0

7. Preliminary checks and shaft preparation

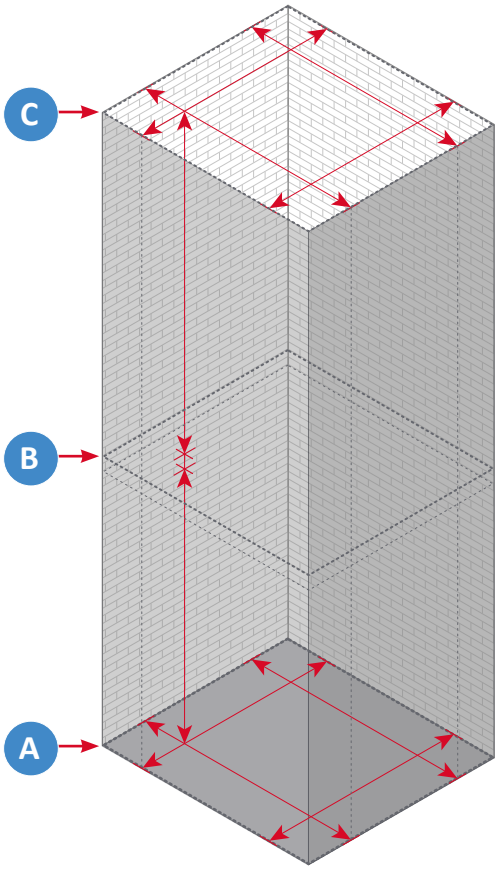
IMPORTANT!

The checks can only be carried out by direct confirmation with the final design drawing of the machine (GAD) in its latest approved revision.

- Check the vertical free dimensions along the entire shaft, in vertical projection of the pit, as indicated on the GAD.
- Check that the dimensions of the pit, storey heights and headroom are the same as those specified in the GAD.

IMPORTANT!

The GAD indicates the permissible deviation tolerances from the nominal dimensions.

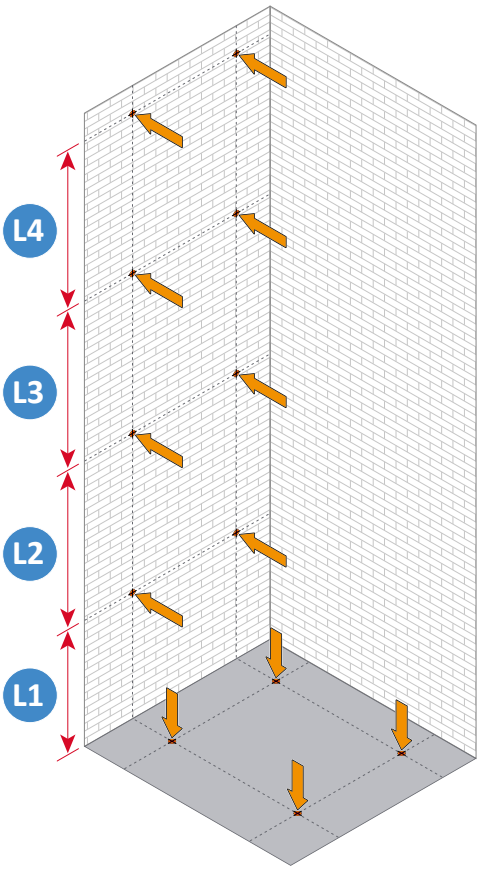


A = PIT
B = STOP
C = HEADROOM

- Check that the shell/guide rails fixings can be realized at the points specified in the GAD, by direct fixing to a load-bearing wall or tie.

WARNING

FAILURE TO OBSERVE THE DISTANCE BETWEEN ANCHOR POINTS COULD COMPROMISE THE STABILITY OF THE PLATFORM!
The distance between the fixing points cannot for any reason exceed the dimensions indicated in the GAD.



8. Installing the scaffold

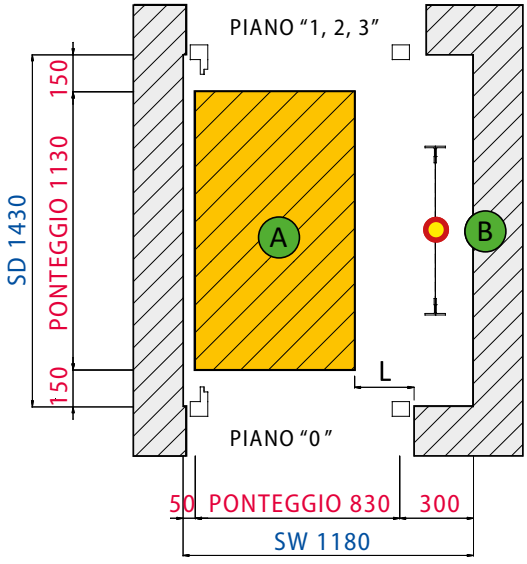
WARNING

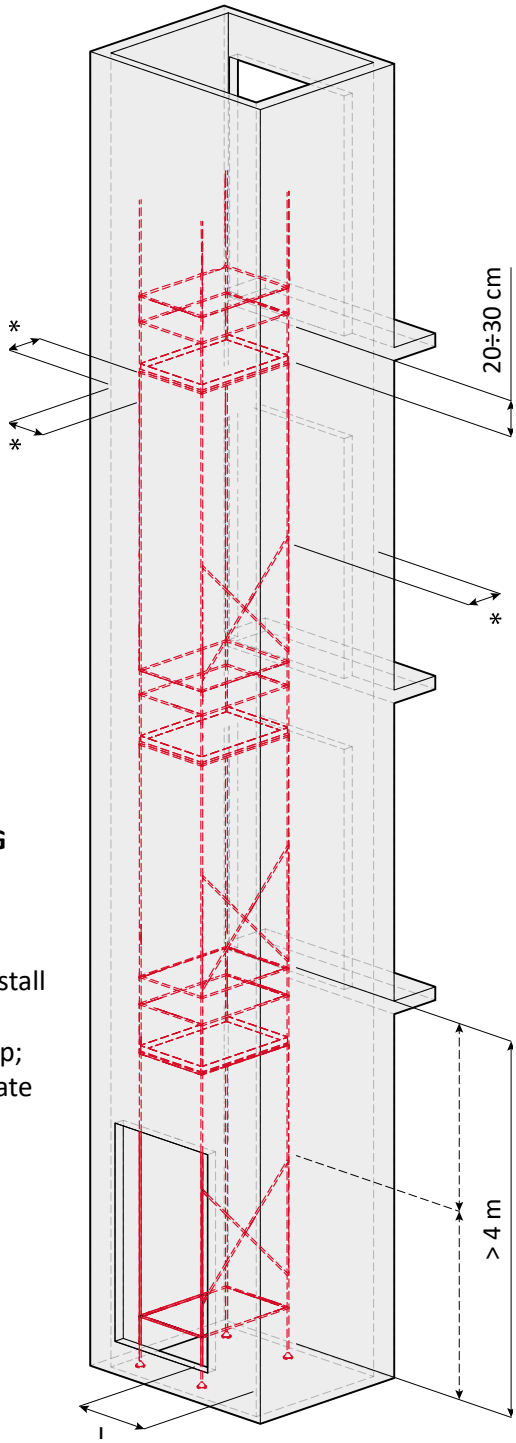
RISK OF FALLING DUE TO A DROP:
In order to minimize the risk of falling, the scaffold must **ALWAYS** be installed by qualified personnel, in compliance with the regulations in force.

IMPORTANT!

Respect the maximum space available for the installation of scaffolding (A), to be carried out in accordance with the regulations in force.

Assemble the scaffold INSIDE THE SHAFT where the system is to be installed (even in the case of a shaft in a metal frame). Install the scaffold in such a way that the guides can be moved inside the shaft.





THE SCAFFOLD MUST BE ASSEMBLED ACCORDING TO THE FOLLOWING CHARACTERISTICS:

- Use anti-slip panels with anti-tip stops;
- Keep the distance from the shaft walls as per the project drawing.
- If the distance between the scaffold and the shaft walls is > 20 cm, install the fall protection parapets;
- It is necessary to provide a support surface 20+30 cm below each stop;
- If the distance between one floor and another is > 4 m, an intermediate support surface must be provided in the scaffold.

The images are purely indicative, check the design drawing for correct positioning of the scaffolding

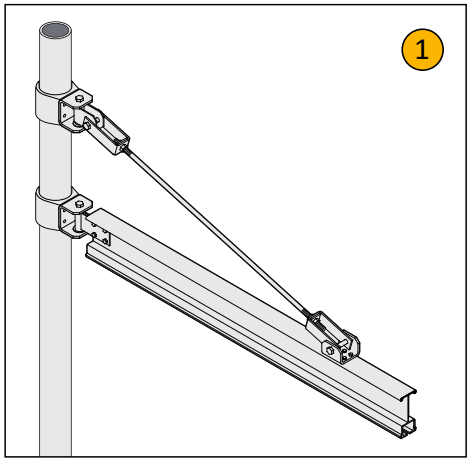
∗ = indicated on the project drawing
L = machine width

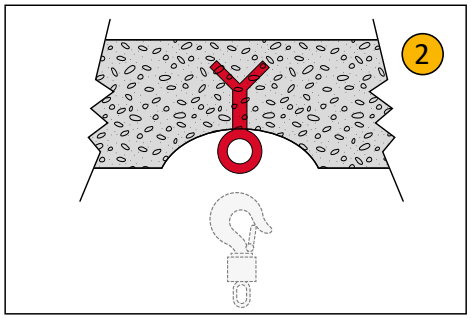
9. Load lifting devices

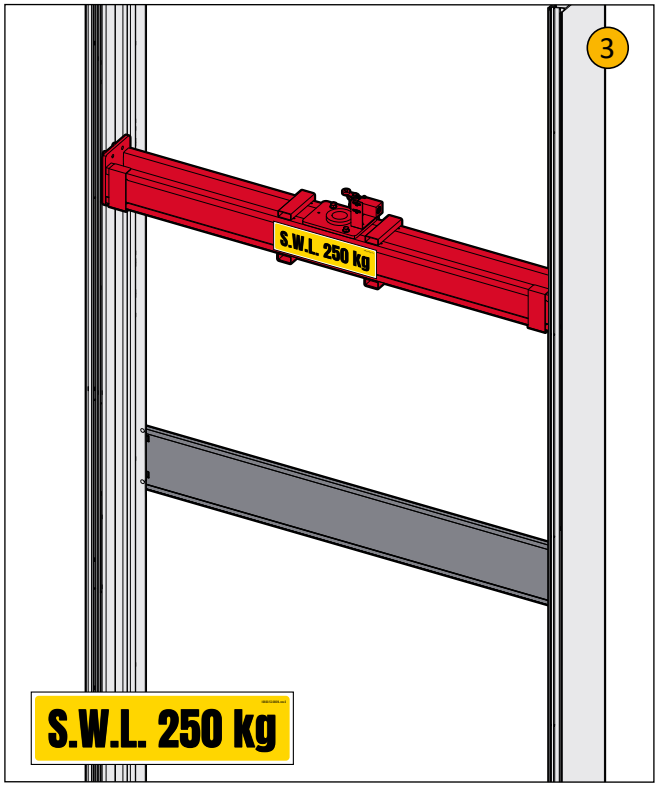
WARNING	
	DANGER SUSPENDED LOAD: The use of load lifting devices involves risks, therefore the safety instructions provided by the lifting device manufacturer must be followed.
	The masonry work to prepare the slab for installing the hook must be carried out in accordance with the regulations in force.

For the handling of loads inside the shaft, we recommend:

1. The use of a jib winch/jib hoist to be anchored to the scaffold (recommended for shafts with an open header in structure or masonry).
2. The use of a winch/hoist to be hung from an approved hook provided in the ceiling of the header (recommended solution for masonry shafts with closed header)..
3. In cases where it is not possible to use the devices mentioned in points 1 and 2, it is possible to attach the winch/hoist to the header beam, respecting the Safe Working Load (S.W.L.) of 250 kg.







TIPS FOR LIFTING LOADS INSIDE THE SHAFT:

WINCH AT HEIGHT

- Check the compatibility of the forces applied with the requirements of the scaffold tower manufacturer and/or the manufacturer of the jib used..
- Install the jib (crane) (1) at the highest point of the scaffold.

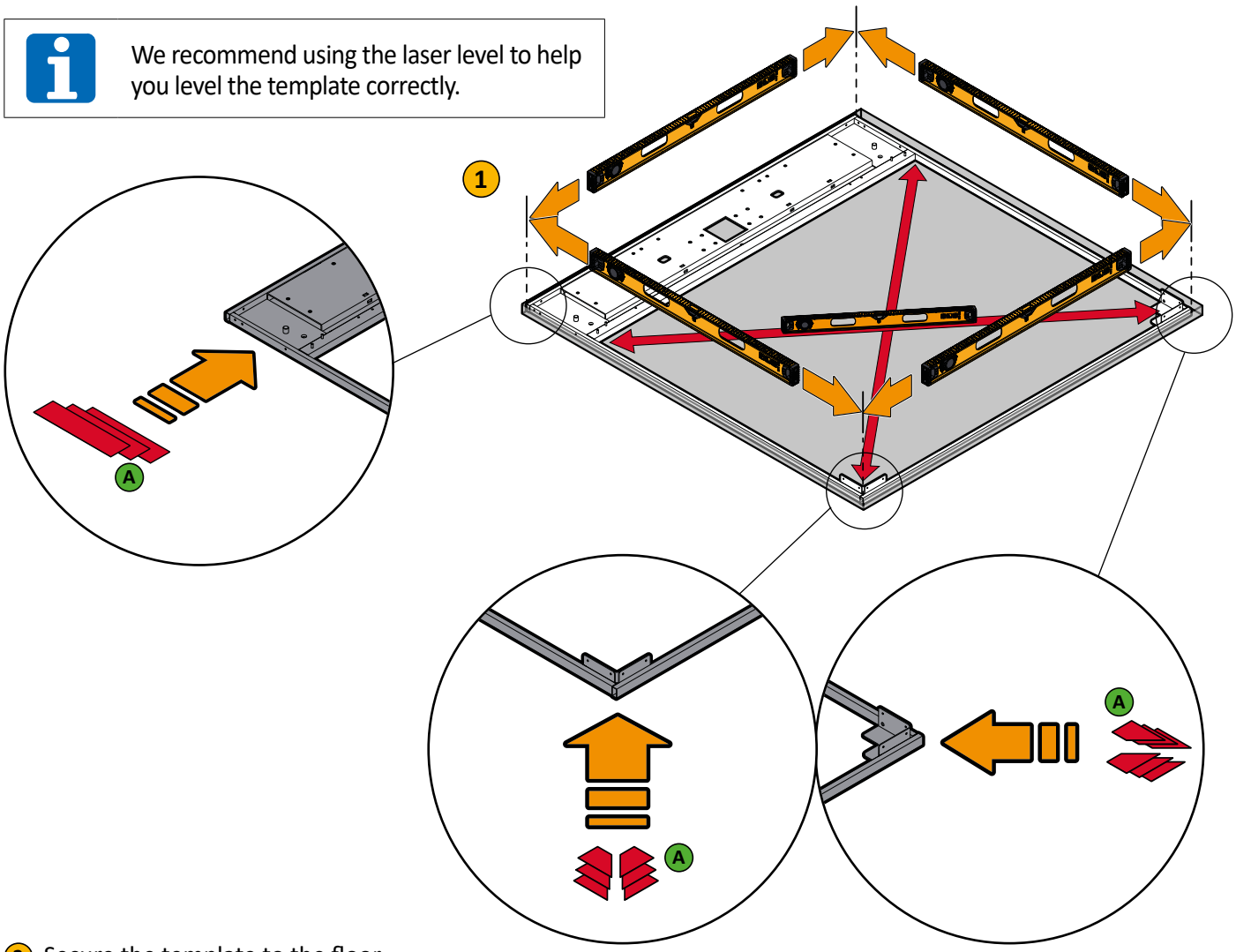
IMPORTANT!
The images and information provided here are purely indicative and are intended to assist the installer in his work. Always refer to the appropriate technical documentation.

10. Jig - Positioning and fixing

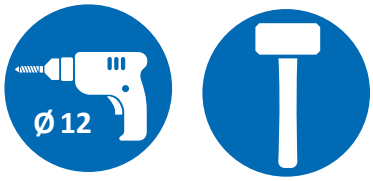
10.01. Jig - installation in the presence of a pit

1 Carefully level the pit bottom template (+/- 2 mm) with the shims provided, checking the position with the plumb bob in relation to the vertical of the shaft.

> We recommend using the laser level to help you level the template correctly.



2 Secure the template to the floor ONLY FROM THE MECHANICS SIDE, through the prearranged holes.



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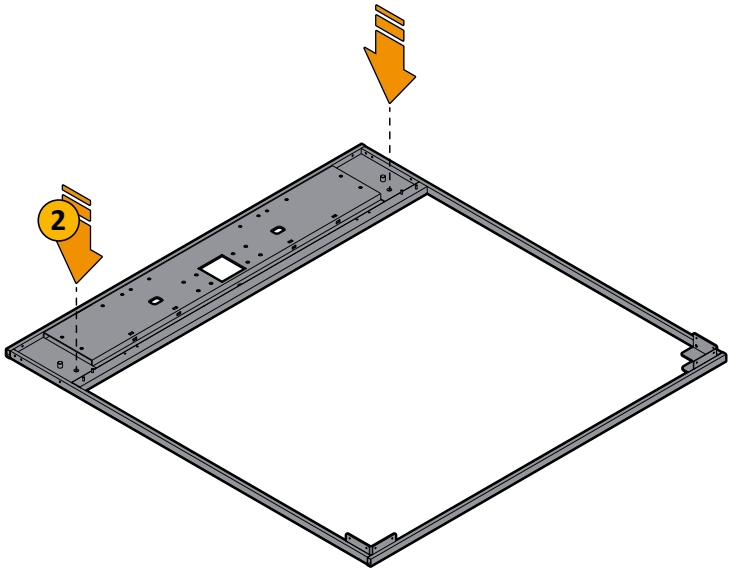
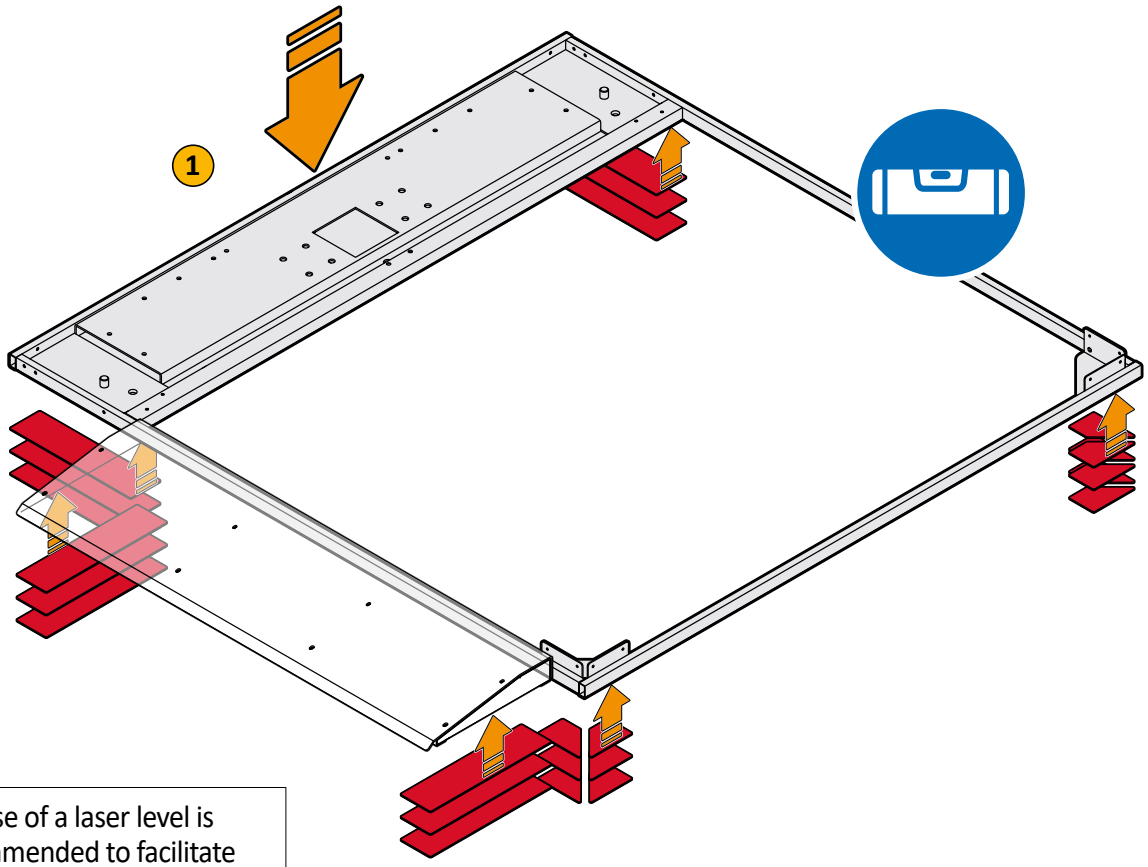


10.02. Jig - installation in the absence of a pit

1 Carefully level the template against the floor (+/- 2 mm) with the shims provided A, checking the position with the plumb line in relation to the vertical of the compartment.

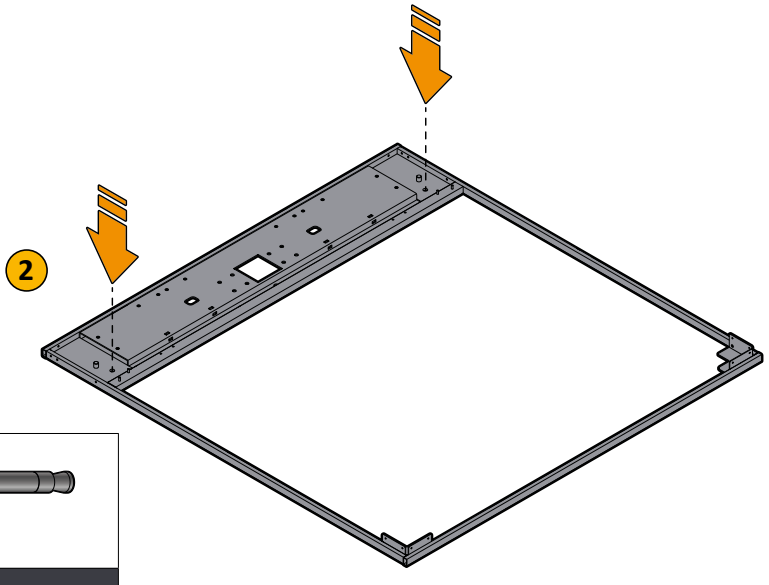
IMPORTANT!

In the absence of a pit, an access ramp B is installed, which must be levelled correctly so that it is flush with the jig and prevents subsequent platform support problems.
§ 13.20.02 FLOOR DOOR - installation (in the absence of a pit).



The use of a laser level is recommended to facilitate correct levelling of the template.

2 Fix the template to the floor ONLY FROM THE MECHANICAL SIDE, through the holes provided.



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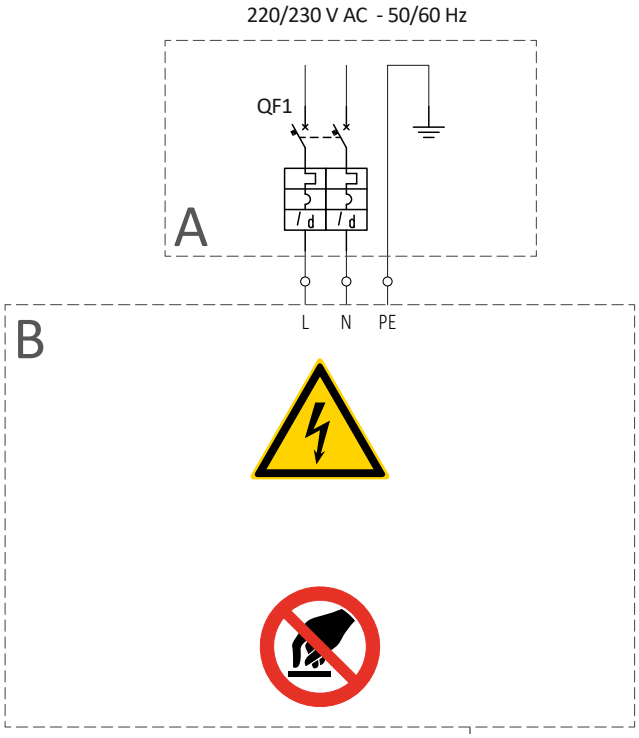
11. Electrical system preliminary checks

11.01. Electrical system before the platform - Preparing

- The client must guarantee the protections suitable for the electrical power distribution system and the relative short-circuit current for the Power Supply Panel, according to standard CEI 64-8 et seq. (thermal-magnetic circuit breaker of adequate size and 30mA differential protection).
- The main disconnecting switch for the motor power, also supplied by LiftingItalia, is installed inside the platform control panel. .
-

After installing the power supply panel, record it has been checked in accordance with point 4.01.01 of the manual “IM.TEC.127 - DOMOFLEX-2 - Final Checks”.



Legend:	
A	general electrical panel of the building
B	POWER CONTROL PANEL LIFTINGITALIA

WARNING

RISK OF ELECTROCUTION:
The lighting and power supply systems must meet the requirements of the system and the regulations in force. Check that it has an effective earth. If they do not meet all the requirements, interrupt the installation until the system has been brought up to standard by the customer.

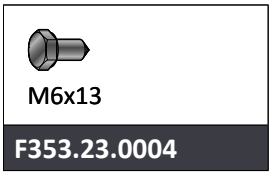
12. Guide rails, upper beam and transoms - installation

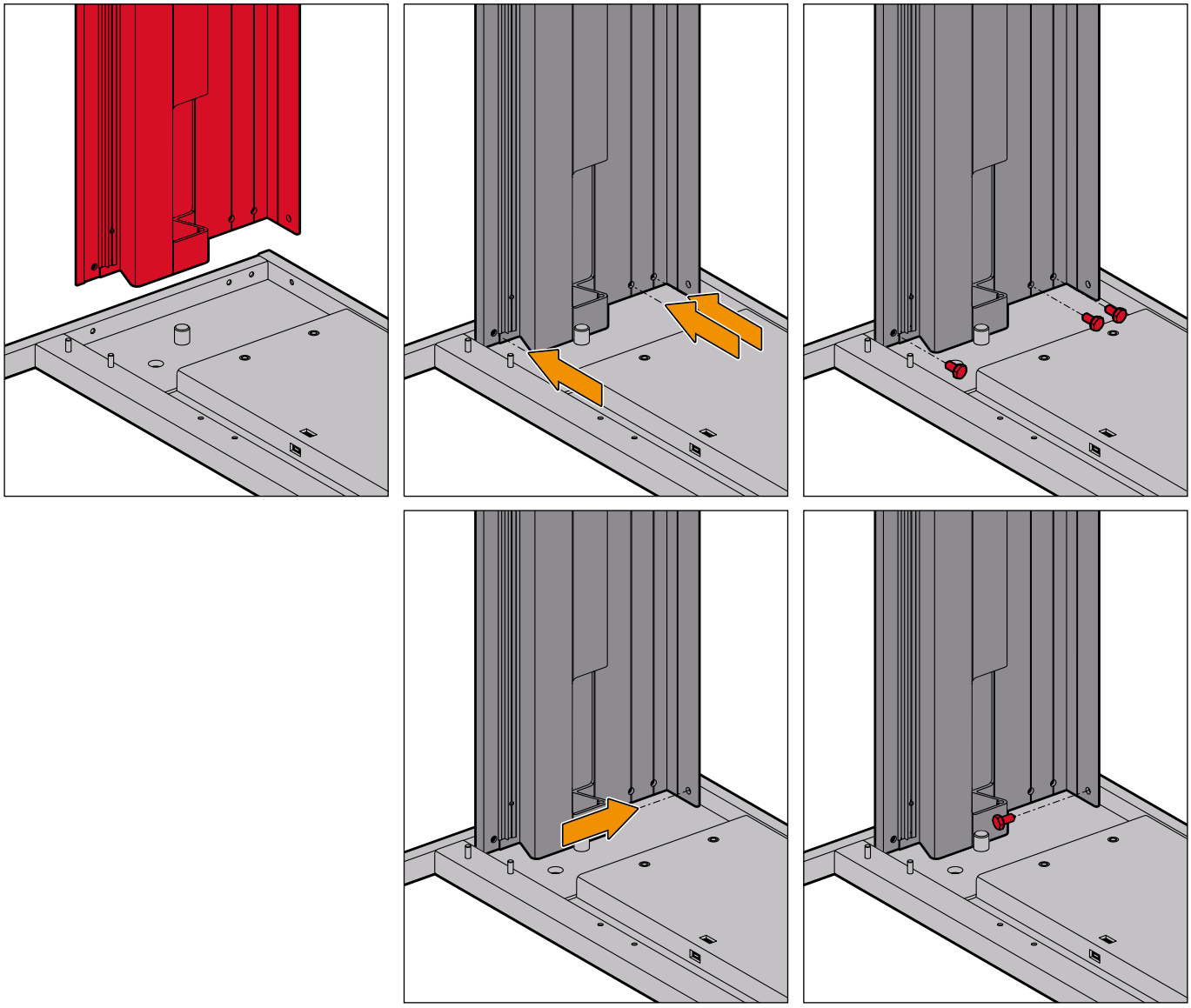
IMPORTANT!

READ FOR PROPER INSTALLATION
Proper installation of guide rails, screw, and platform requires accuracy.
Adjustments and alignments on the machine can only be performed at the installation site.
The time spent on these adjustments allows a smooth, quiet, vibration-free travel.
The longer the travel, the more care must be taken when adjusting.
Follow all the instructions included in this manual.
In particular, it is recommended to carefully check the alignment of guide rails, screws, pins, and platform shoes, and the lubrication of screw and guide rails.

12.01. Guide rails - fixing to the template

- Position the guide rails so that the holes match those on the start template and secure them with the screws provided.



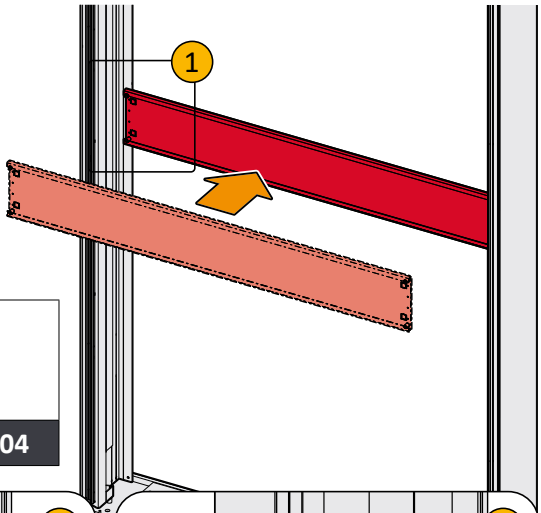


12.02. Transoms - installation

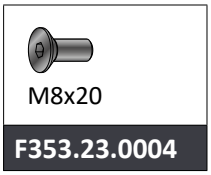
IMPORTANT!

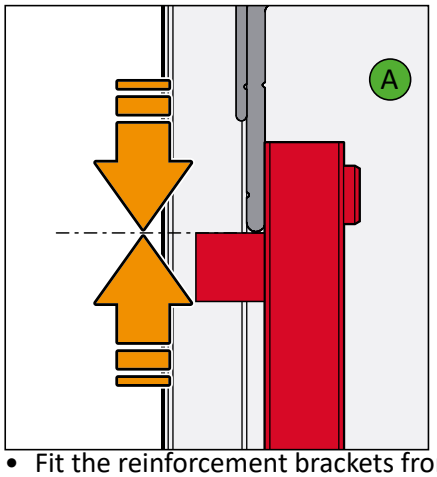
Verify that the gauge measurements match the design drawings.
The reference lamellas (A) must coincide exactly with the edge of the guide profile. .
Otherwise the guide gauge is incorrect and can cause vibrations.

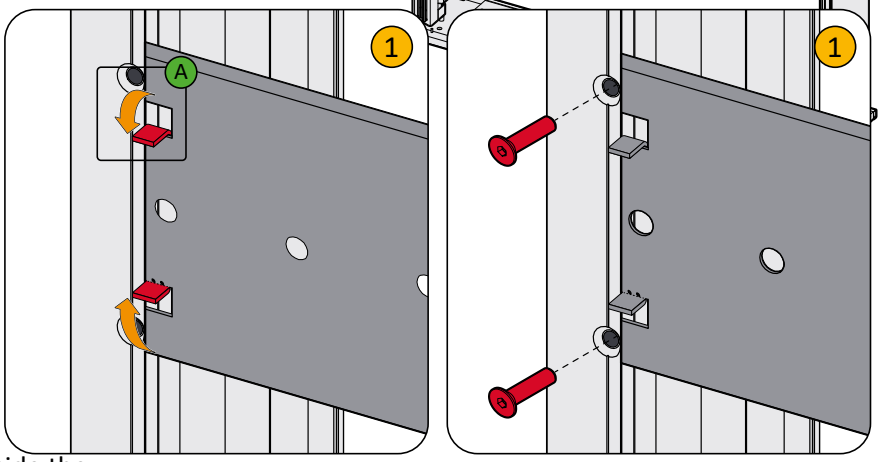
The transoms must be installed at the same time as the guide rail segments.
The transoms must be positioned inside the shell and secured from behind with the screws provided.



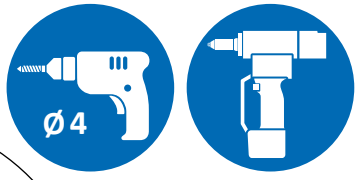
- Position the transom, open the tabs to facilitate correct positioning;
- Secure the transom from the rear, using the screws provided.

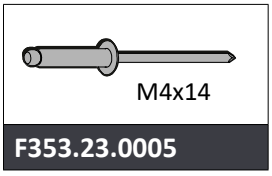


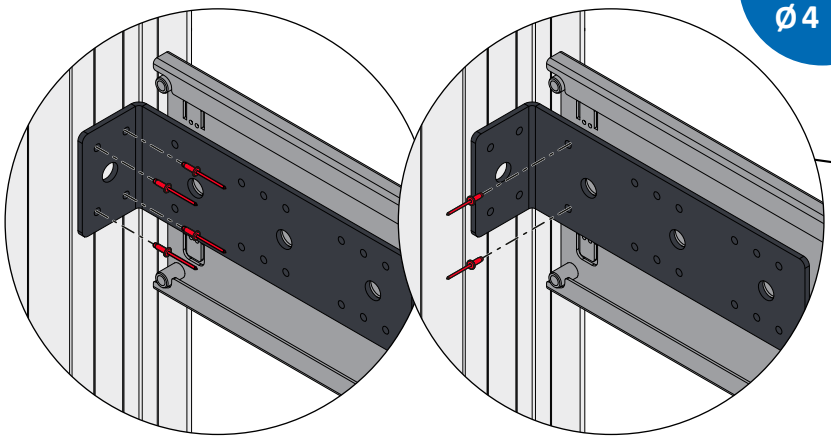


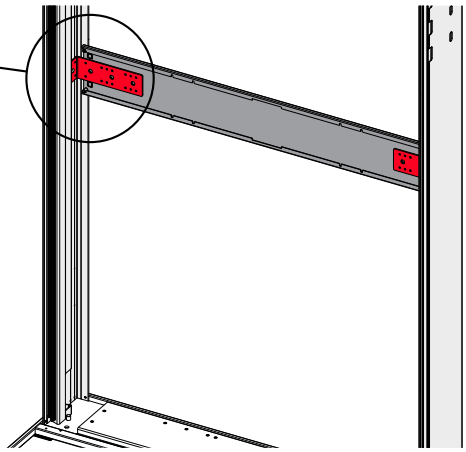


- Fit the reinforcement brackets from inside the platform: drill the guide rail and secure with the rivets provided.







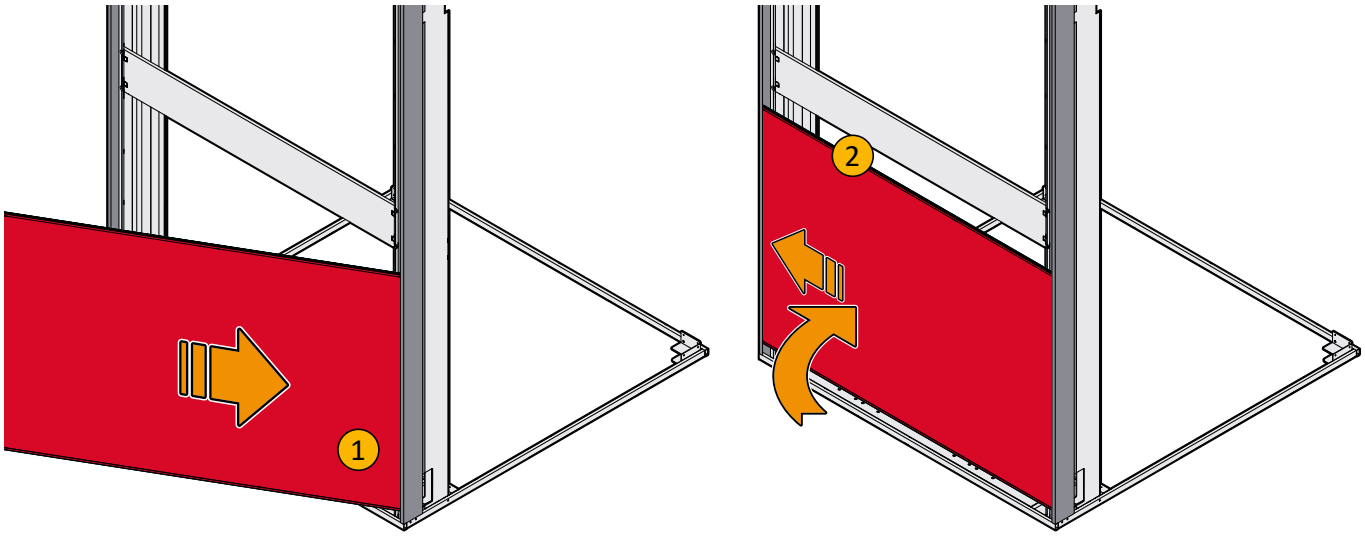


- Continue with the combined installation of guide rails and transoms

12.03. Infill panels (mechanics rear side) - assembly

12.03.01 INFILL PANELS (MECHANICS REAR SIDE) - STANDARD ASSEMBLY

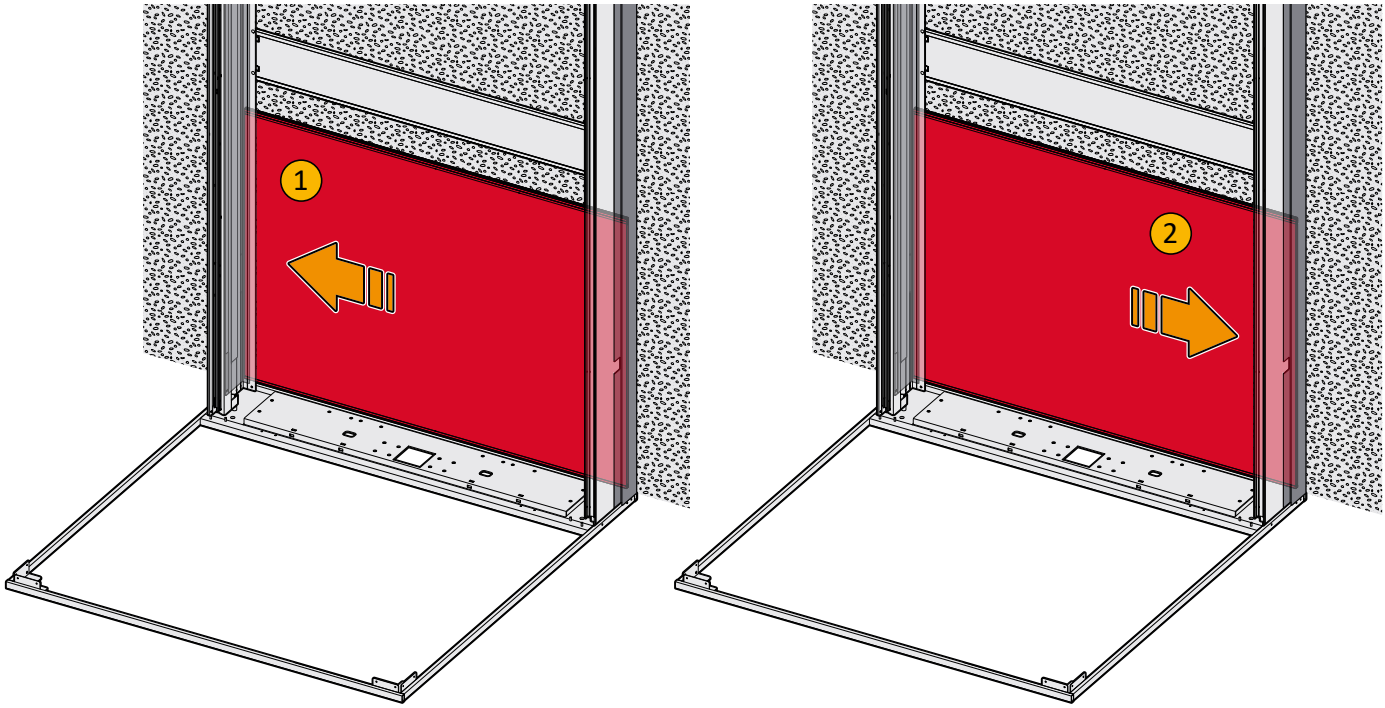
- Position the bottom panel from the rear, inserting it into the corner profile on one side (1).
- Rotate it so that it is coplanar with the profiles and insert it into the opposite profile (2).



12.03.02 INFILL PANELS (MECHANICS REAR SIDE) - ASSEMBLY TO THE WALL

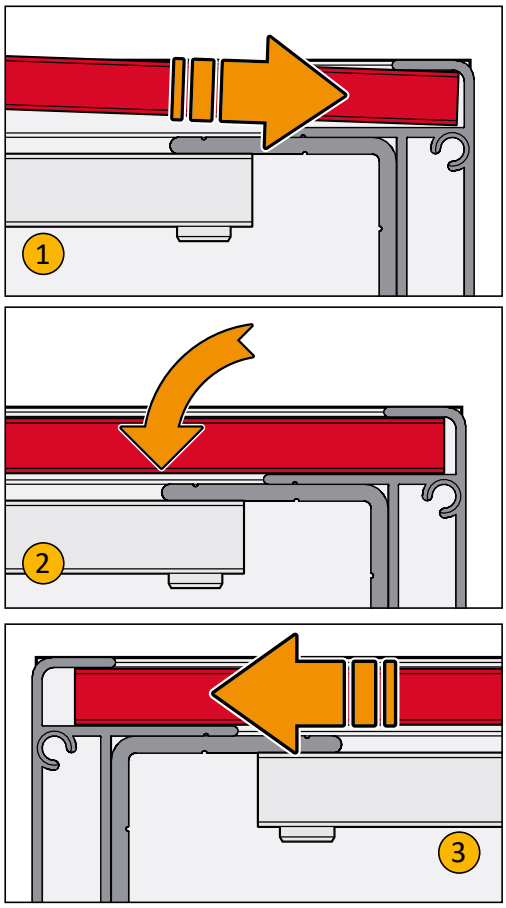
In the case of platforms with the mechanics side against a wall, it is advisable to install the mechanics rear panels at this stage, as they have more room to manoeuvre.

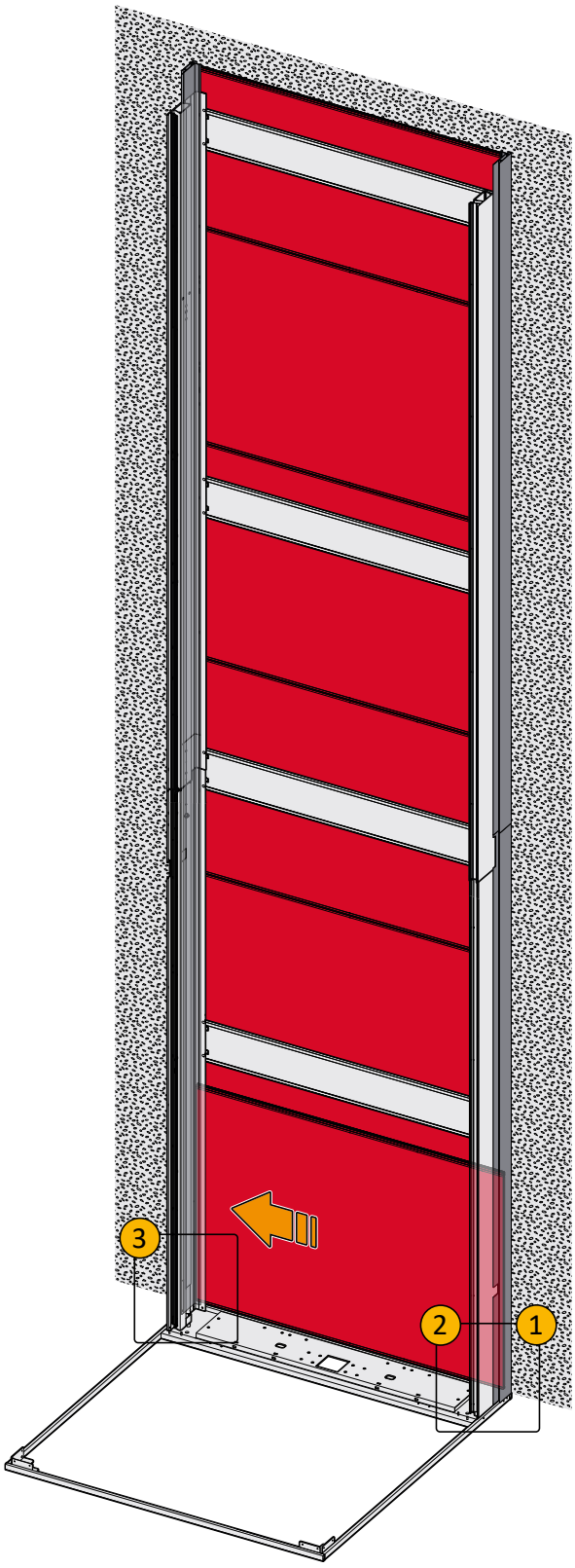
- Position the bottom panel from the inside, inserting it into the angle profile on one side (1).
- Turn it so that it is coplanar with the profiles and insert it into the opposite profile (2).



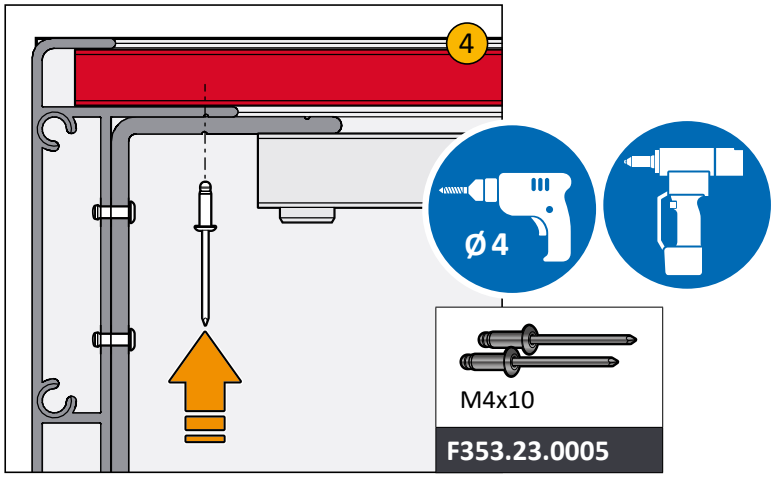
12.03.03 INFILL PANELS (MECHANICS REAR SIDE) - DETAILS AND FIXING

- Repeat the sequence with all panels from bottom to top.





- Fasten the panels with at least 5 rivets per side (4)



IMPORTANT!

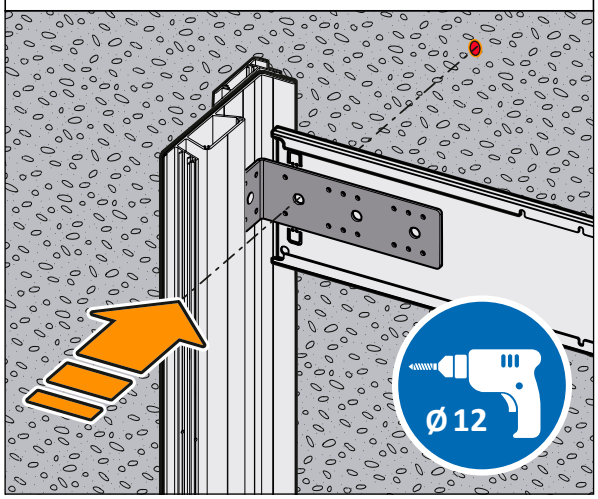
Secure to the transom immediately below the dimension indicated in the GAD.

Use the outermost holes for fixing. Only if necessary, use alternative internal holes, checking beforehand not to interfere with the flexible cable mounting plate (§ "10.06")

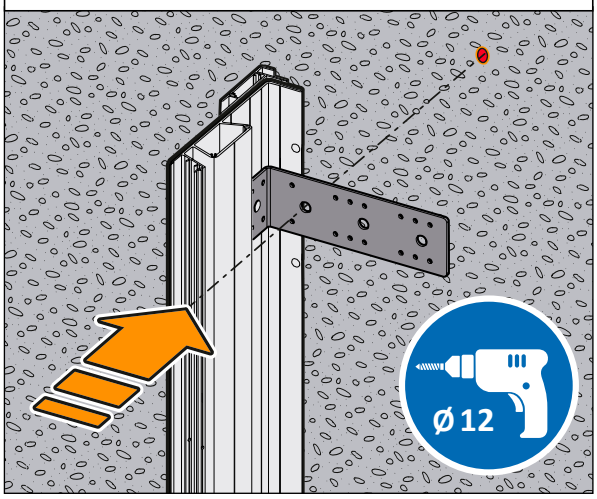
The anchoring illustrated here refers exclusively to the installation on a wall/slab of compact, non-cracked concrete.

- Drill the wall/slab at all anchor points indicated on the design drawing.

STANDARD FIXING



ALTERNATIVE FIXING PERMITTED



- Anchor the shell with the plugs provided. If necessary, use shims on the rear to obtain correct vertical alignment..

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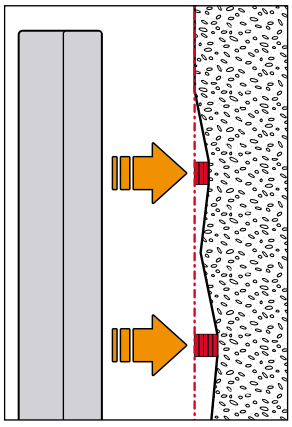
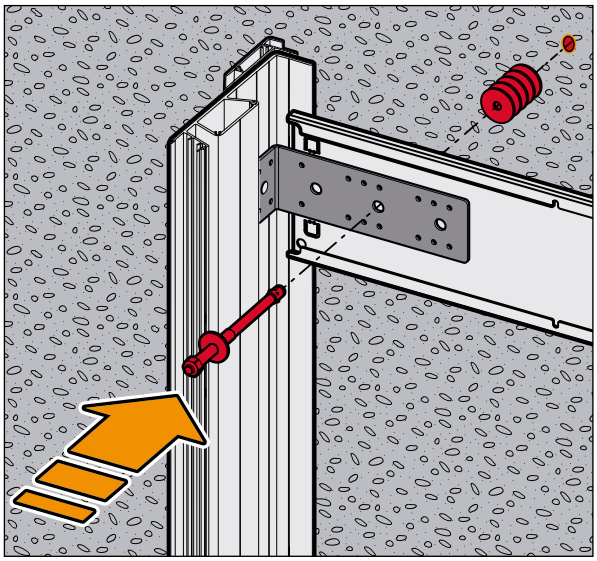
In case the wall/slab to which the shell is to be anchored is not perfectly vertical, it is necessary to use shims to obtain a perfect vertical alignment.
The shims shall be provided by the installer.



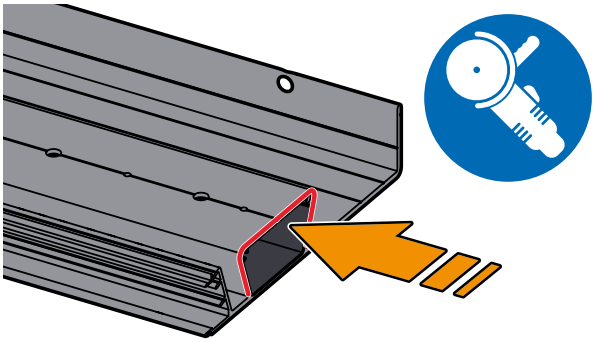


12.04. Guide rails - installation

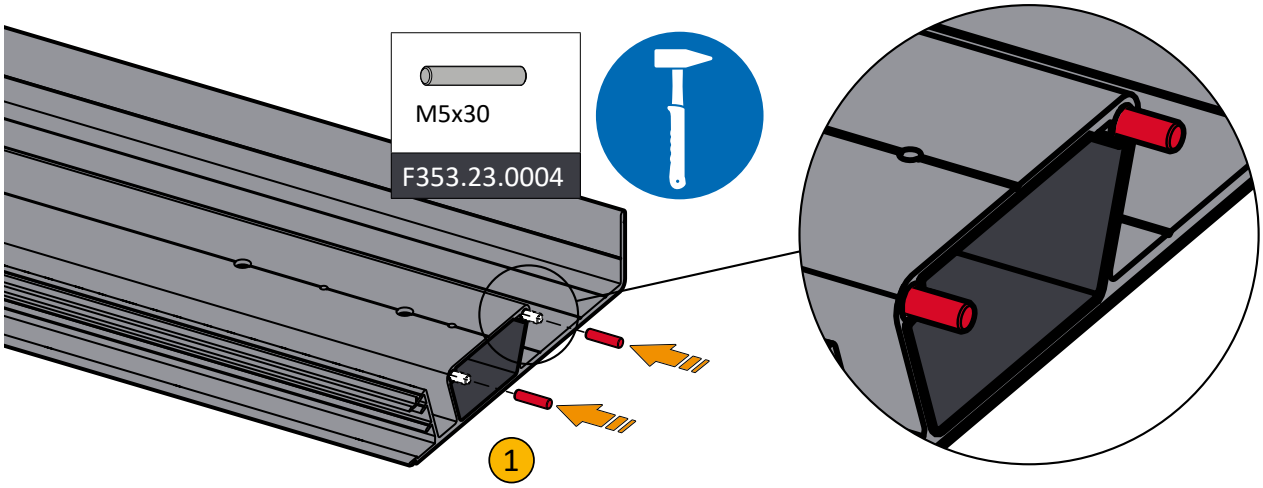
NOTICE

Take the upper rail sections and remove any aluminium burrs from the joints

WEAR APPROPRIATE PPE

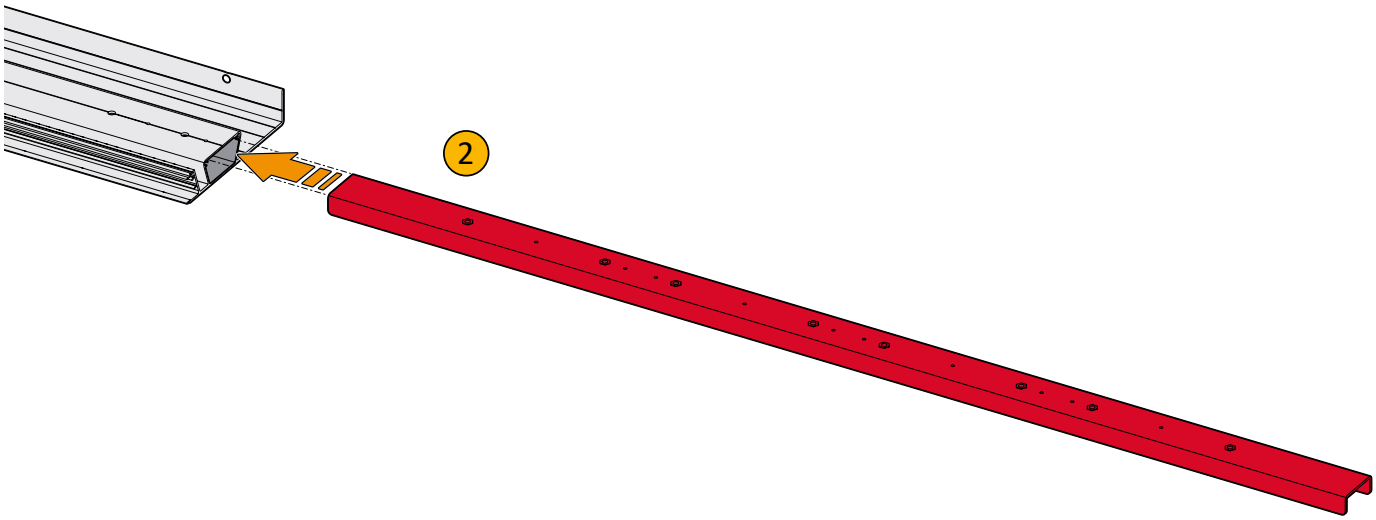


- Insert the cylindrical pins into the upper rail sections (1) ONLY HALF OF THEIR LENGTH, allowing them to protrude halfway out of the profile.



It is recommended to secure the pins by means of a drop of cyanoacrylate adhesive to improve the rail joining operation.

- Insert the rail connectors into the slots in the uprights (2).



- Secure with the spring pins and screws provided.

In the event of a lack of headroom, alternative fixing holes can be used

B

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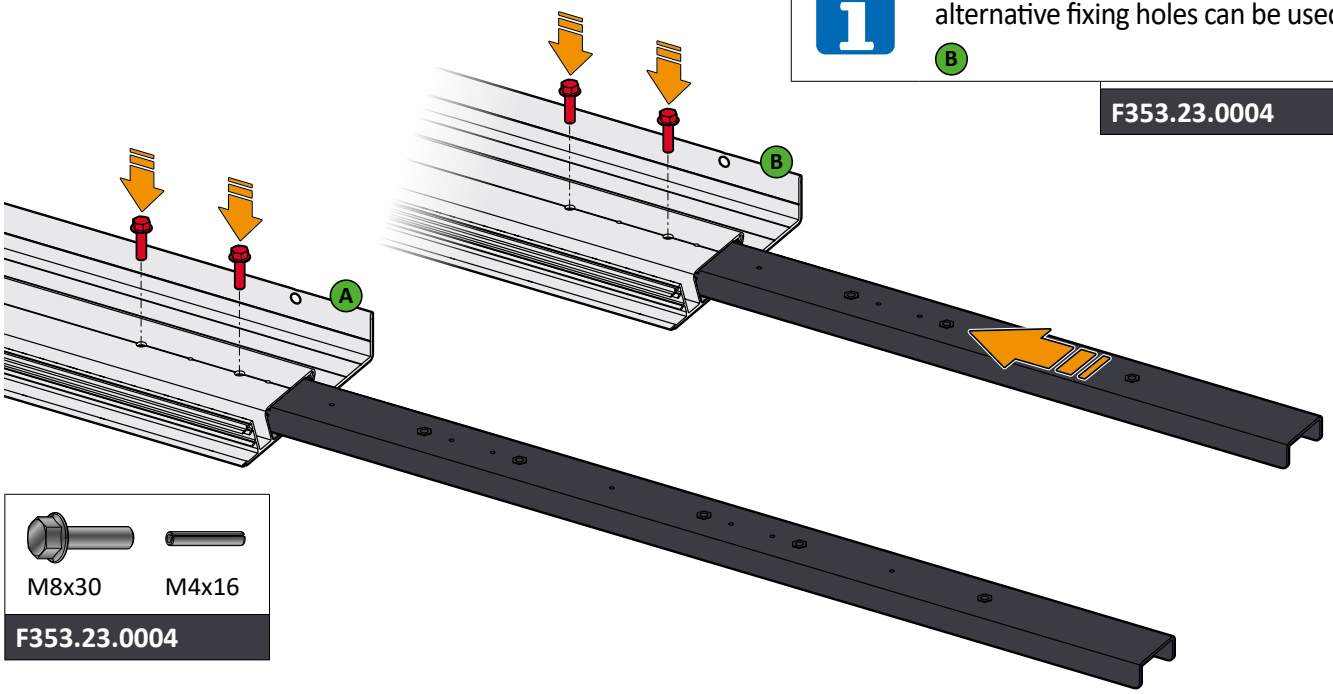


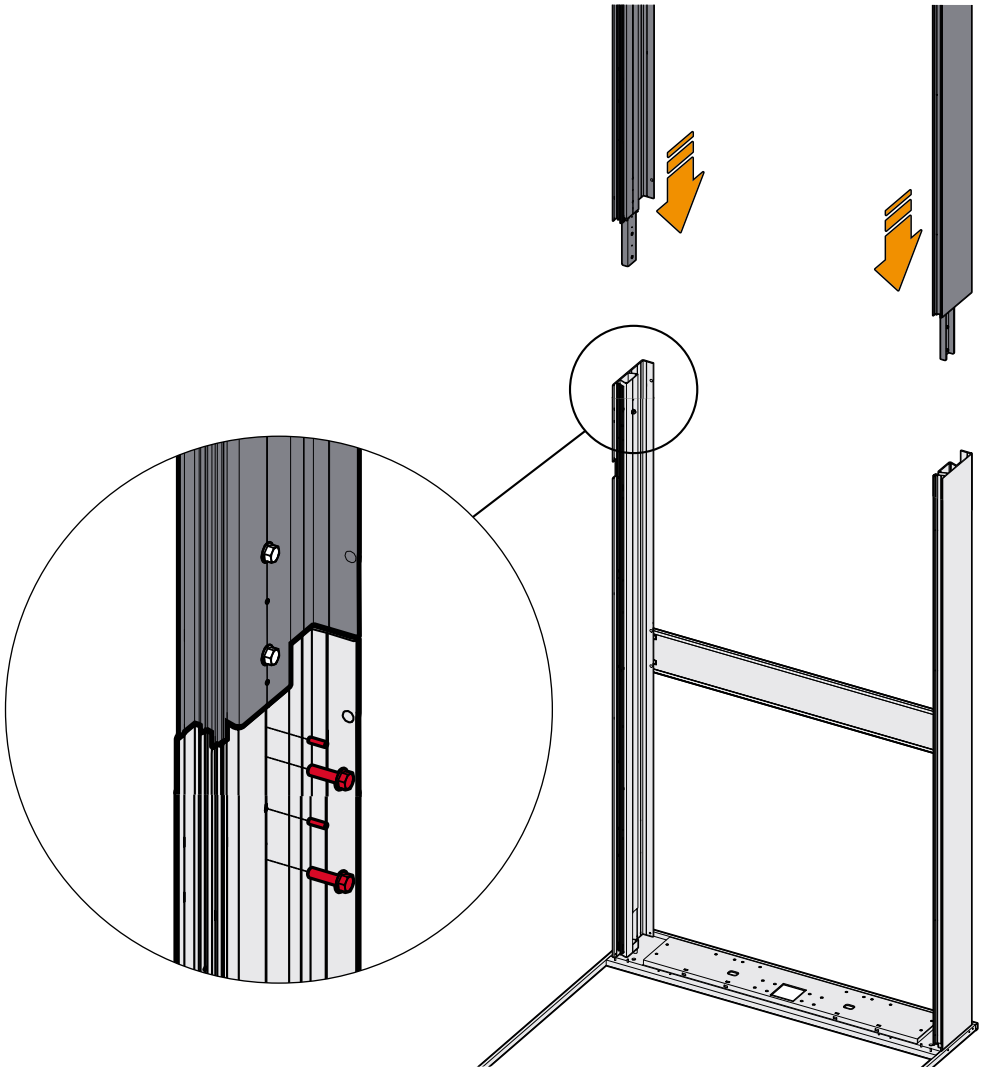
M8x30 M4x16

F353.23.0004

- Insert the top segments and secure them with the screws provided.

M8x30 M4x16

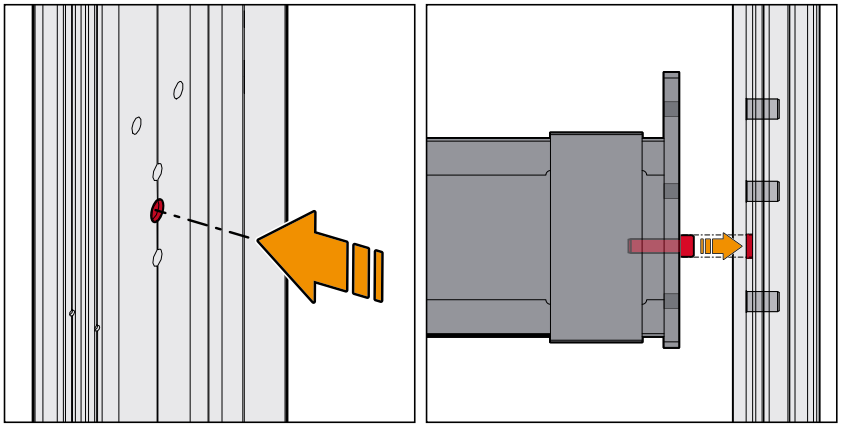
F353.23.0004

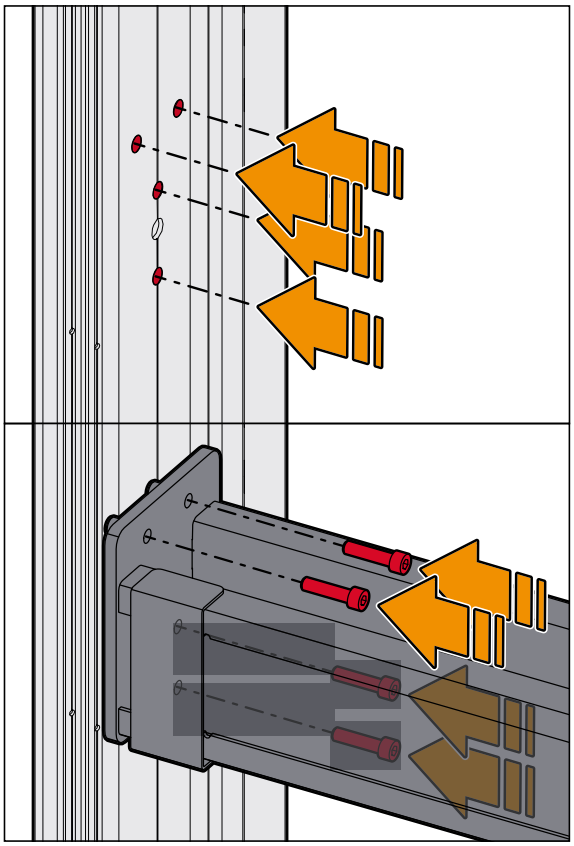


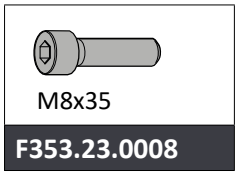
12.05. Headroom beam and transoms - installation

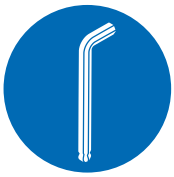
CAUTION	WEAR APPROPRIATE PPE
CRUSHING HAZARD Lift the components using suitable lifting equipment.	

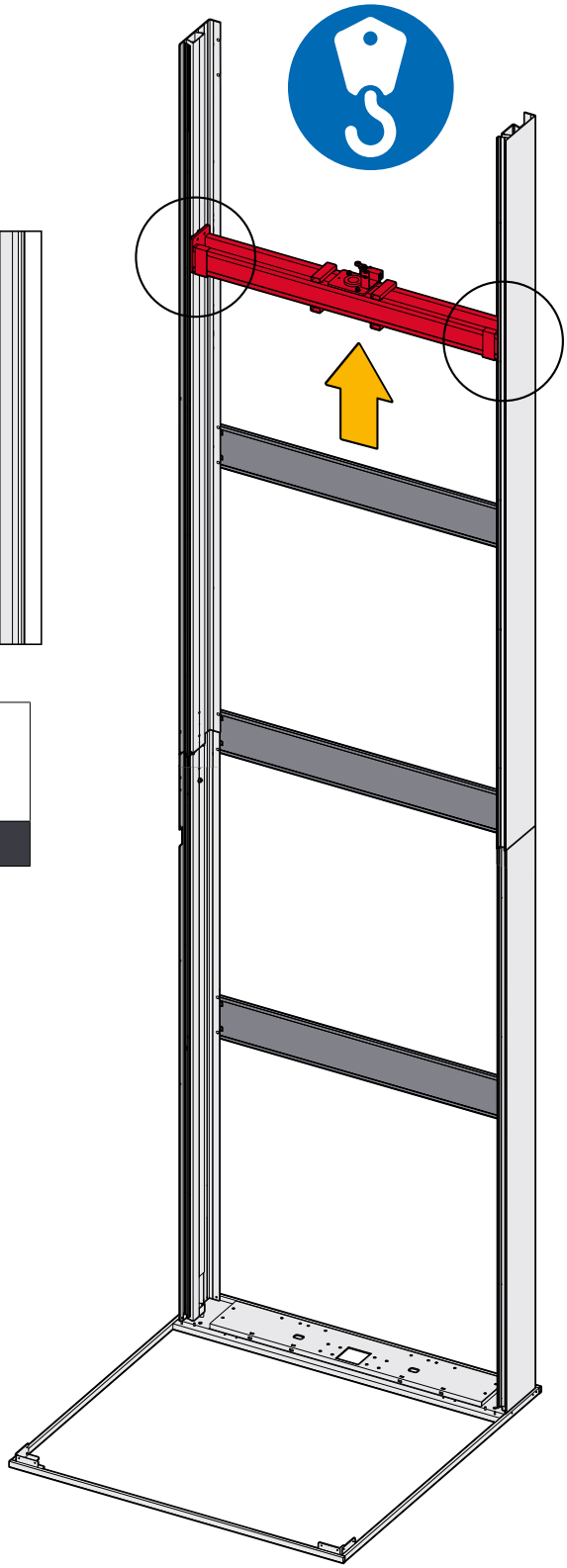
- Position the overhead beam in the position indicated by the holes, with the aid of a hoist, and secure it to the rails using using the screws supplied in the KIT (1).





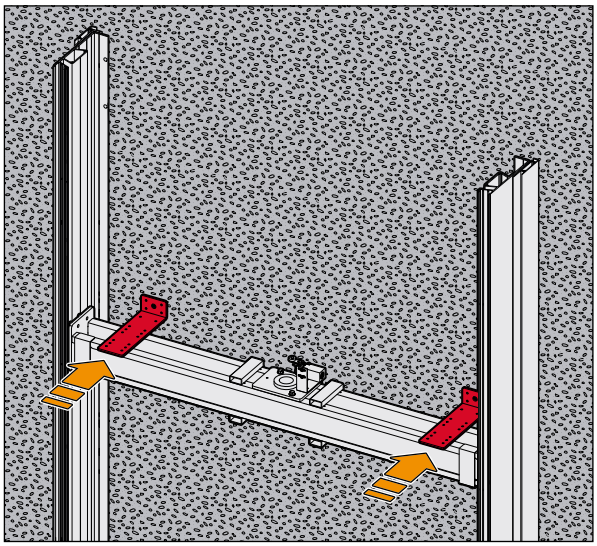




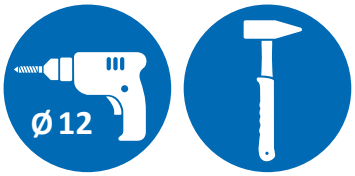


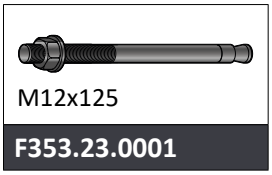
12.06. Headroom beam - wall mounting

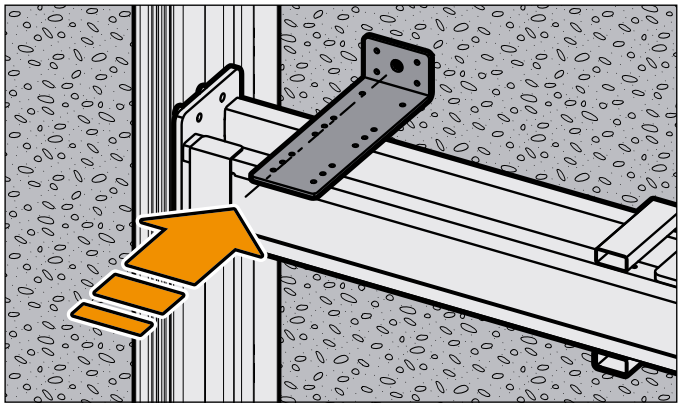
- Position the wall anchor brackets above the headroom beam.

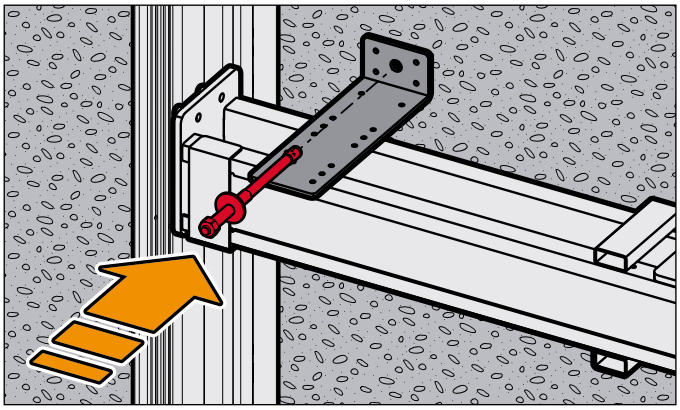


- Drill the wall at a position corresponding to the holes in the brackets.
- Anchor the brackets with the plugs provided.

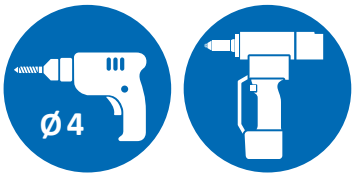


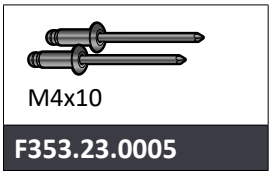


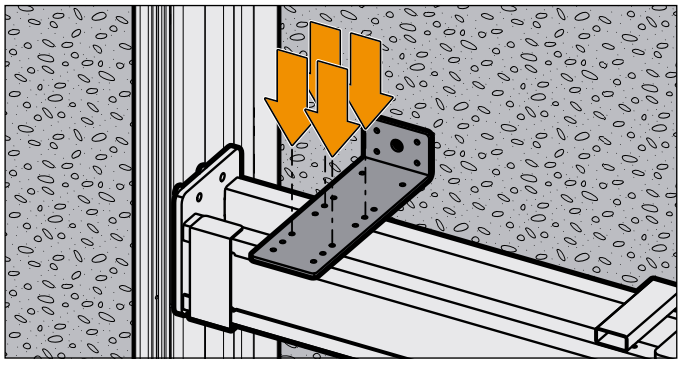


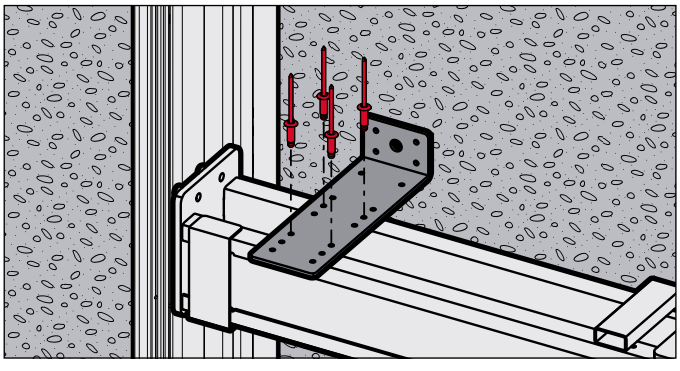


- Drill the headroom beam at a position corresponding to the holes in the brackets.
- Secure the brackets to the beam with the rivets provided.





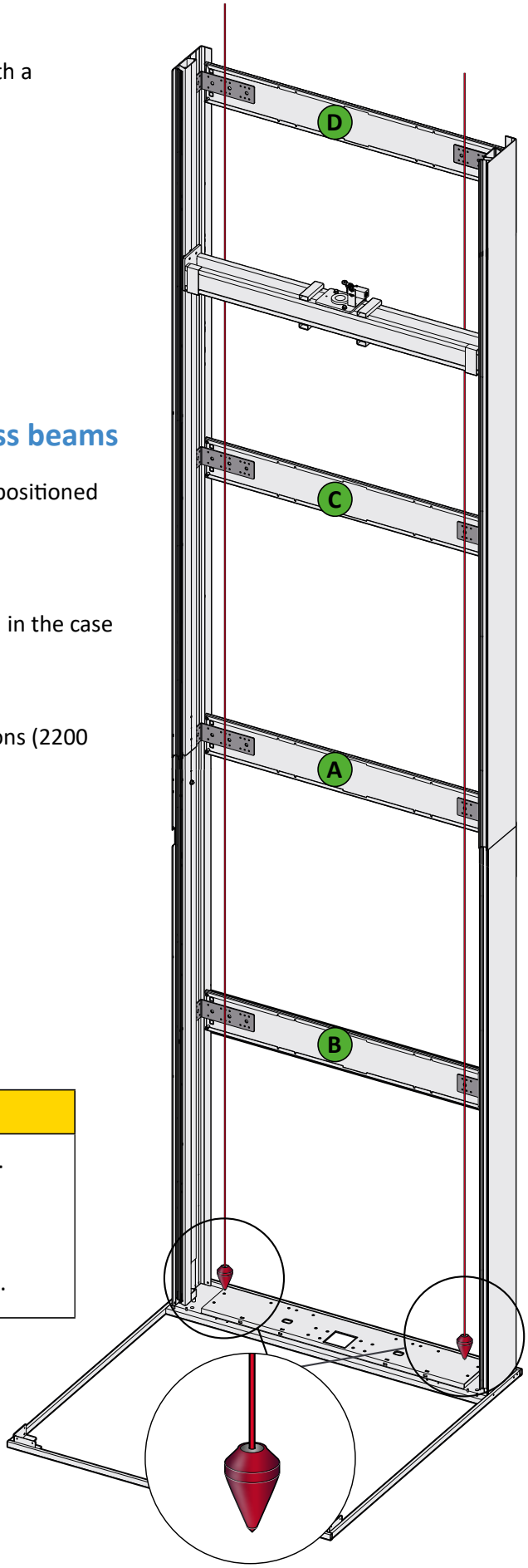




- Proceed with the installation of the last transom in the headroom as previously seen.

12.07. Shell - plumb / wall anchoring

- Check the horizontal and vertical position of the installed guide rails so that they are plumb (in both directions), with a maximum deviation of +/- 2mm at each point.



12.08. Structure - mechanical side cross beams

The cross beams on the mechanical side must generally be positioned according to the following procedure::

1. In the guide-rail joints A.
2. In the middle of the first rail section B (fixed in the pit), in the case of standard rails (2500 mm)

   NOTE: not present in the case of smaller rail sections.
3. In the intermediate section of all intermediate rail sections (2200 mm) C.
4. In closing header D.

IMPORTANT!

MECHANICAL SIDE CROSS-MEMBERS - POSITIONING.
To identify the correct positioning of the mechanical side cross-members, refer to the structure drawing supplied with the platform.

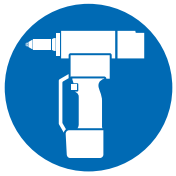
12.09. Rear corner profiles

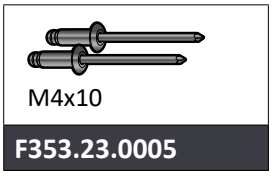
- Position the outer corners, as shown in the diagram, respecting the measurements provided in the design drawing.

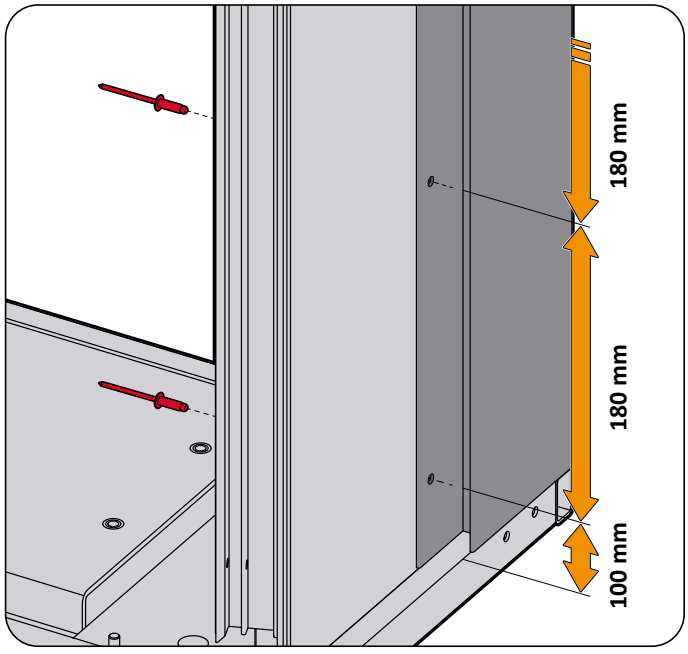
- Mark and drill the holes, performing:
  - the FIRST HOLE 100 mm from the bearing surface;
  - keeping a 180 mm centre-to-centre distance between the holes.

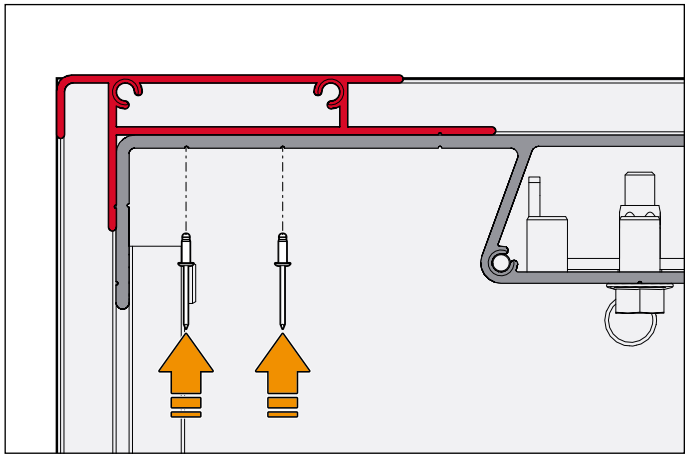
> Near the guide rail joint, rivet 100 mm above and below the joint.

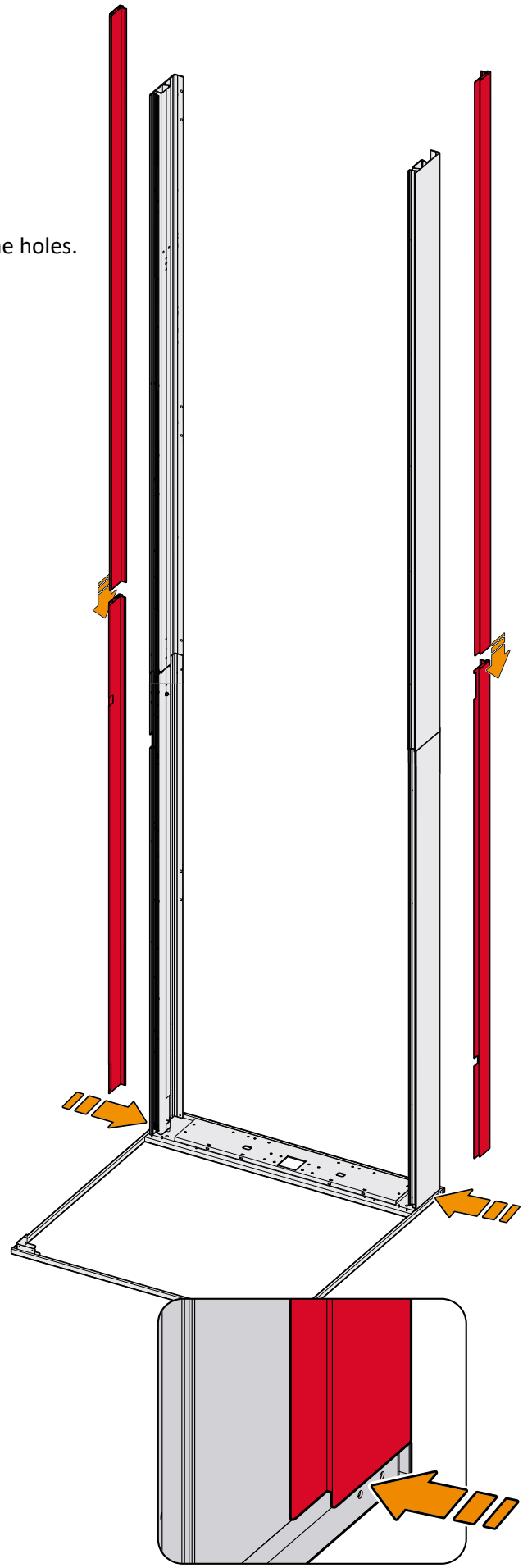
- Secure the corner profiles from the inside, with the rivets provided.











13. Mechanics - assembly

13.01. Checks and precautions

IMPORTANT!

ALWAYS CHECK THE INTEGRITY OF THE GUIDES.

Before installing the mechanism, ensure that there are no damages, metal burrs or protruding parts of any kind on the guides.

NOTICE

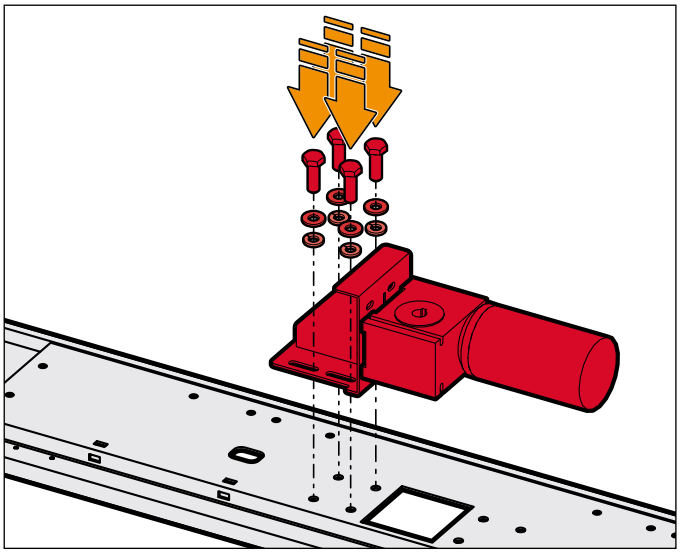
ALWAYS PROTECT THE INTEGRITY OF THE GUIDES.

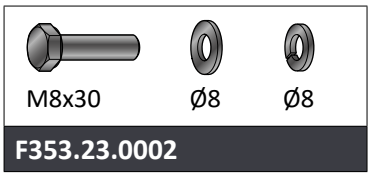
Before and during the assembly of the mechanism, protect the guides from damage.
Always remove debris, metal shavings and dirt from the guideways to prevent damage to the guideways and runner blocks

13.02. Geared motor - assembly

TO ACHIEVE OPTIMUM CENTRING AND AVOID VIBRATIONS:
Complete the assembly of the platform before fully tightening the screws. Once assembly is complete, with the footplate at the lowest level, fully tighten the screws according to the tightening torques (§ 6).

- Position and secure the geared motor with its support on the template with the screws provided.





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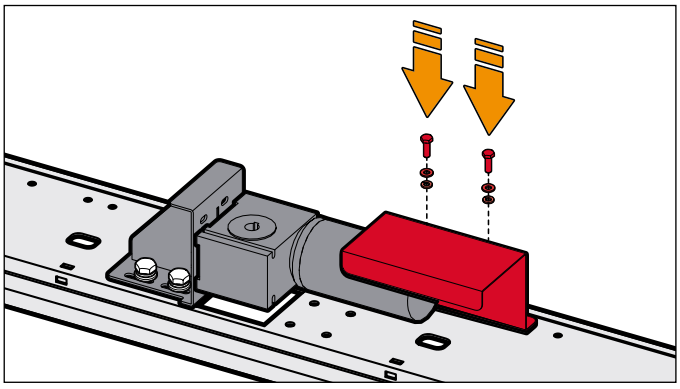
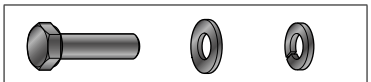
- Position the geared motor protection plate and secure it to the template, using the screws provided.





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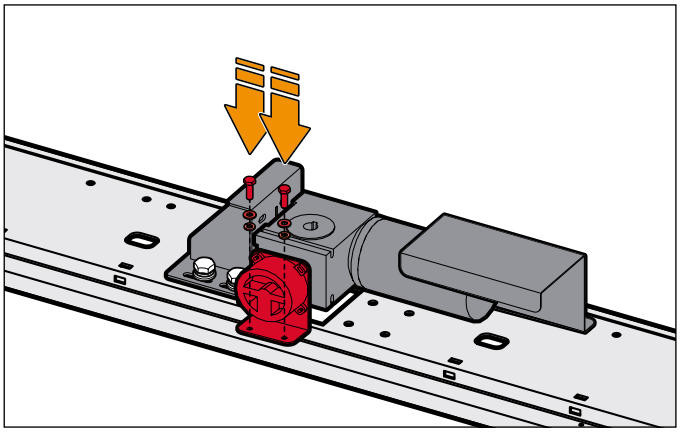
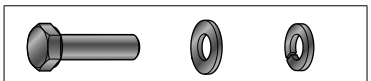
13.03. Pit stop - installation

- Position the pit stop and secure it to the template with the screws pre-mounted on the component.





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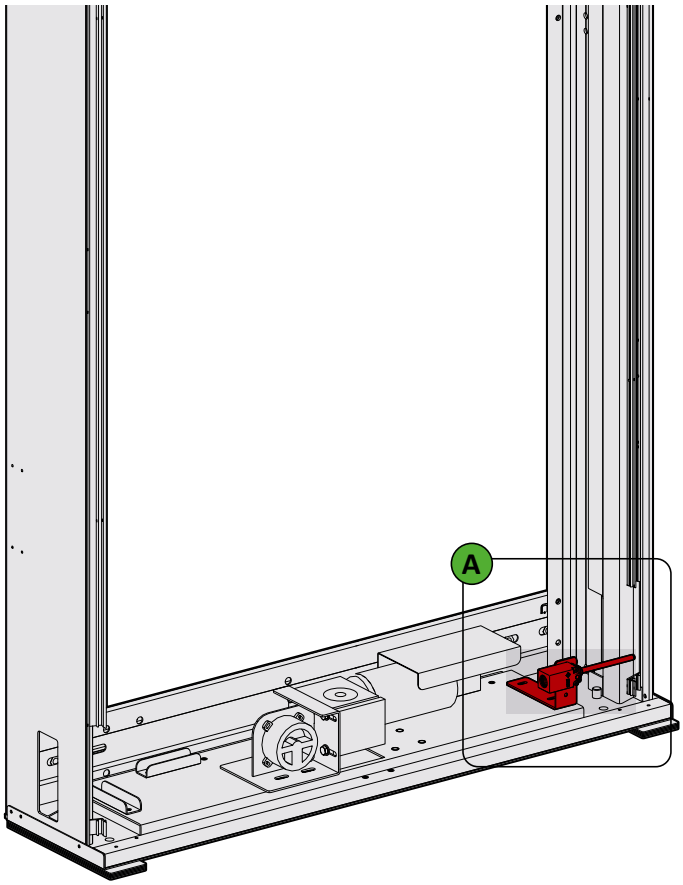
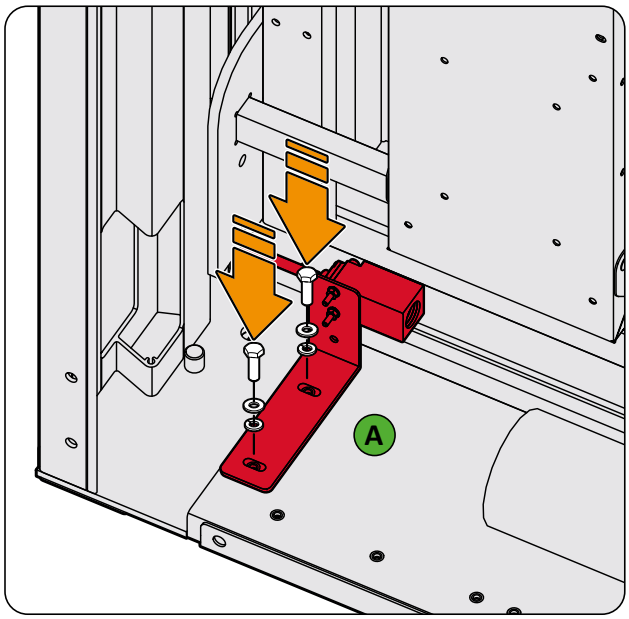
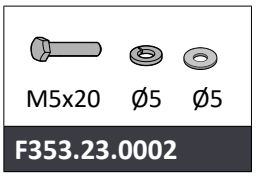
13.04. Pit contact assembly - mounting

PIT BOTTOM SAFETY CONTACT::
Be sure to install the pit bottom contact correctly to prevent potential damage to the platform.

- Position and secure the pit safety contact (A), with its supporting bracket on the template with the screws provided.





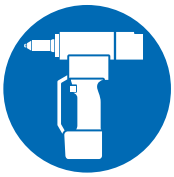


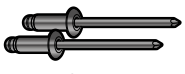
13.05. Safe Pit - assembly

CAUTION

BEFORE ACCESSING THE PIT:
Install the Safe Pit safety device to ensure safe operation in the pit.

- Place the Safe Pit on the template at the bottom of the pit: the strut must rest on the template and fit into the prearranged pin.
- Secure the Safe Pit using the rivets provided.





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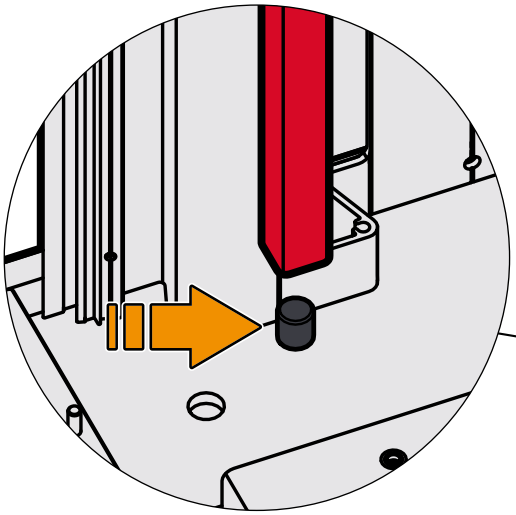
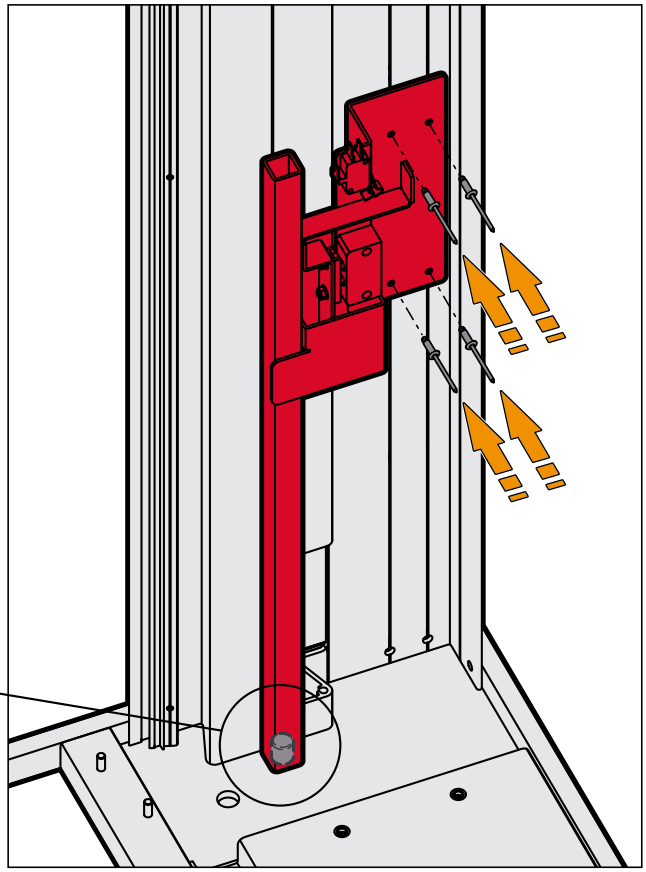
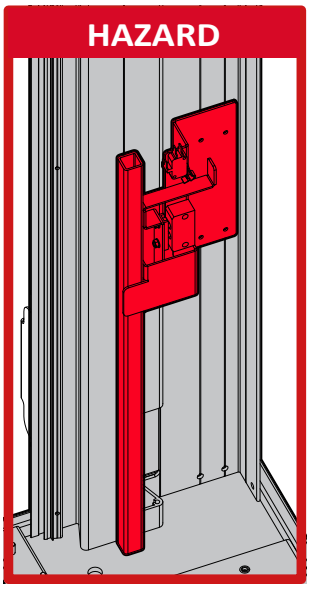




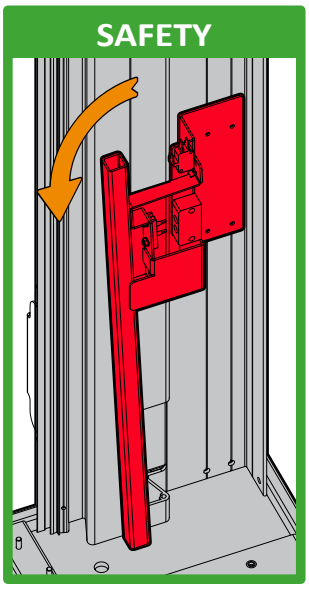
WARNING

CRUSHING HAZARD

The strut must be opened/closed manually until the door, containing the control lever, is installed.

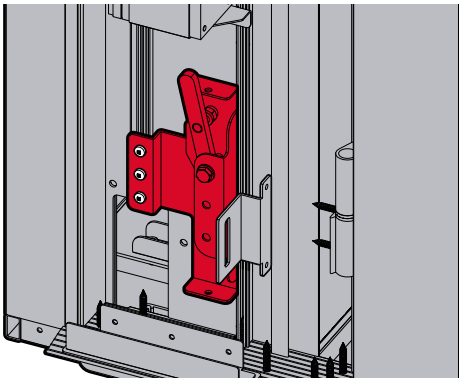


CLOSED (OFF) SAFE PIT



OPEN (ON) SAFE PIT

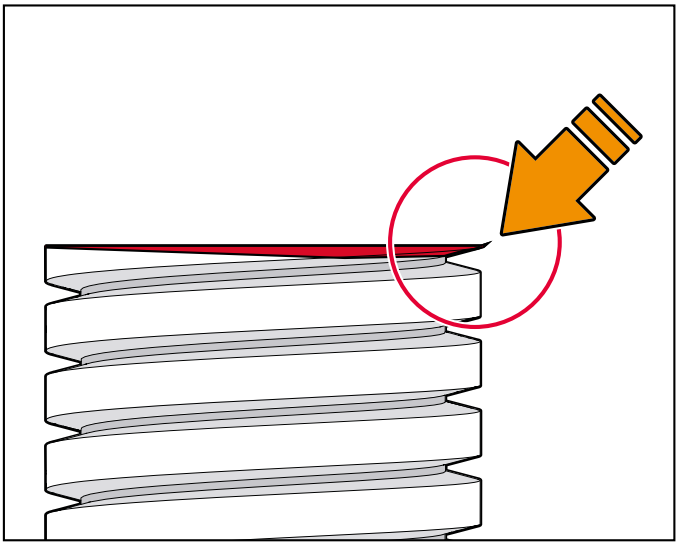
The control lever for Safe Pit remote activation/deactivation is pre-mounted in the cabinet of the electrical panel located in the door jamb.
To connect it to the device see Section:
10.13.04 SAFE PIT - CONTROL LEVER CONNECTION.

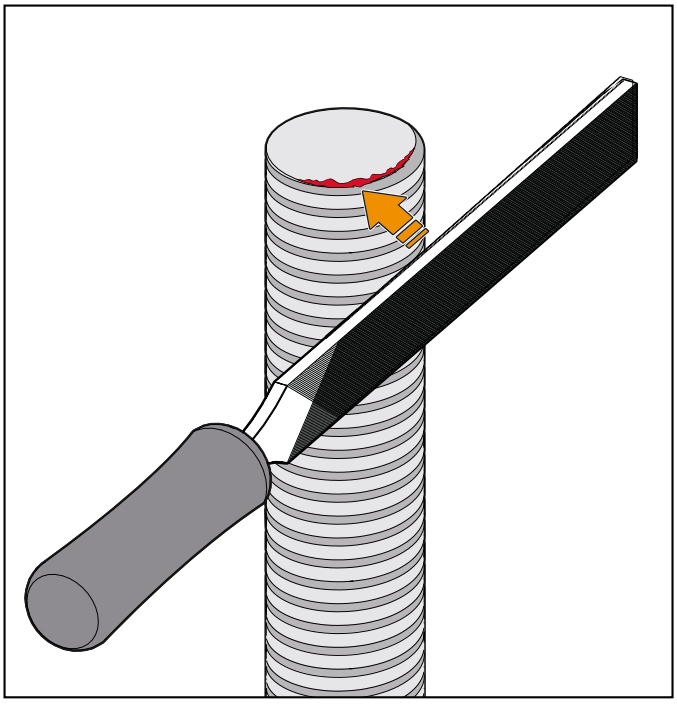


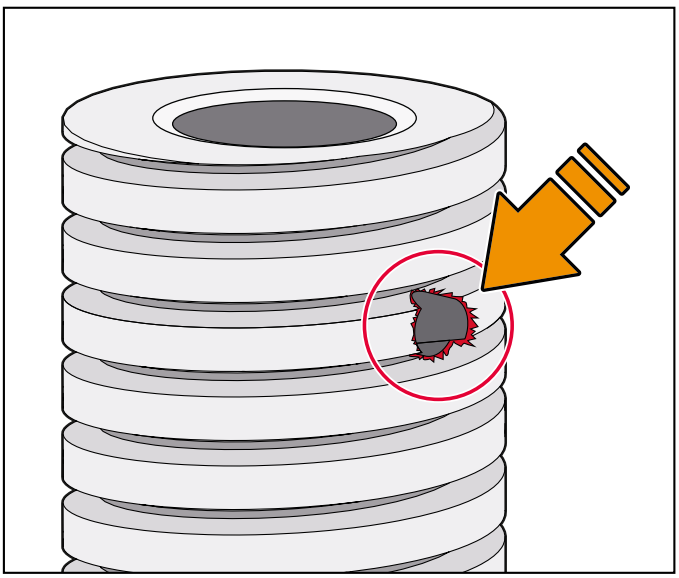
13.06. Maneuvering screw - checks and precautions

NOTICE

ALWAYS CHECK THE INTEGRITY OF THE MANEUVERING SCREW.
Before and after assembling the screw sections, make sure there is no damage, metal burrs or protruding parts of any kind.





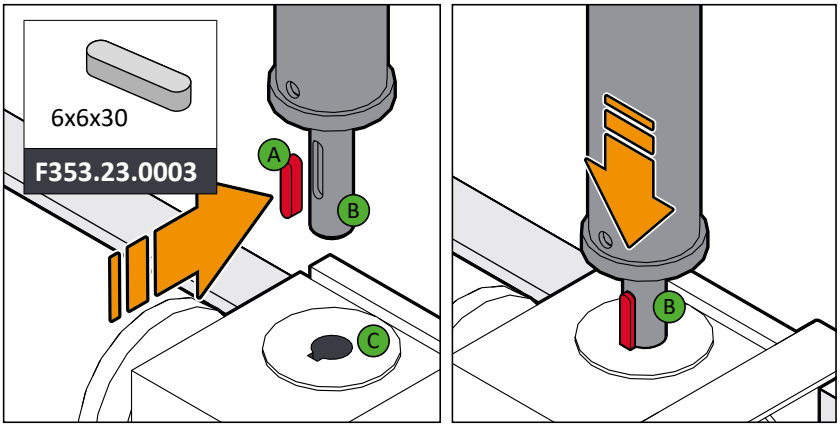


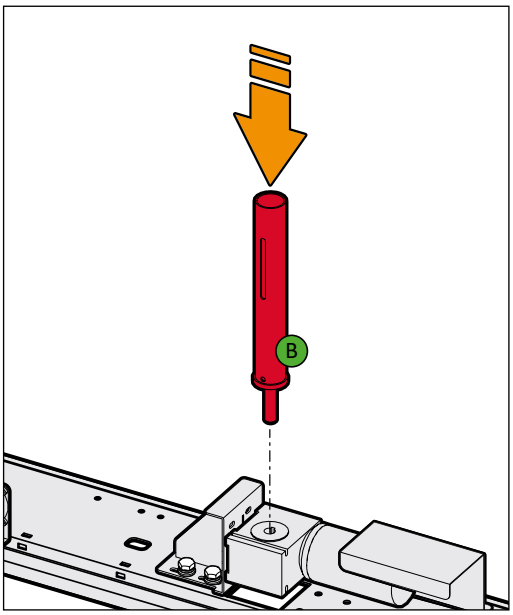
13.07. Manoeuvring screw - pre-assembly and assembly

IN THE PIT:

1 insert the metal key A in the keyway of the sleeve B.

2 Insert the sleeve B in the hub of the worm gearmotor C.



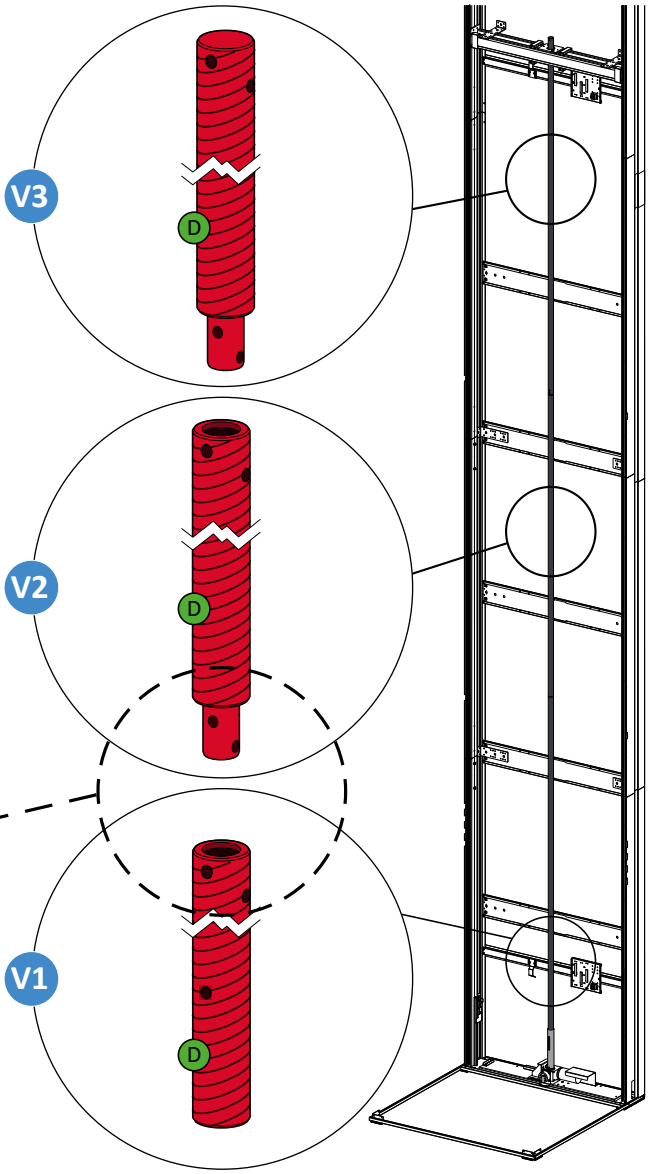


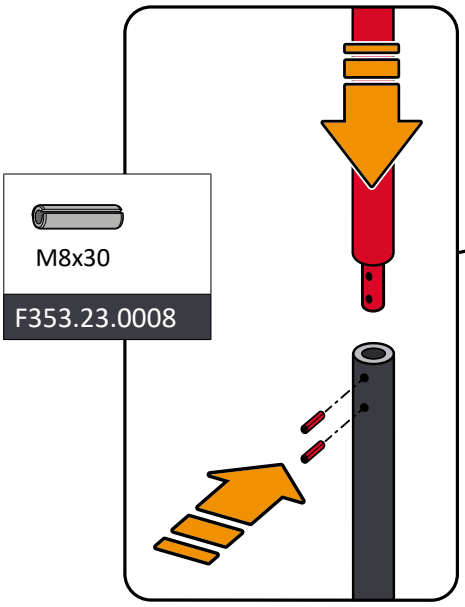
3 Assemble the screw segments D.
Use a suitable lifting device to lift the segments.

CHECK the design drawing for the length of the individual segments and the correct installation sequence.

The installation of the manoeuvring screws must be performed from the bottom upwards:
V1 > V2 > V3.

NOTE: The V2 segment is not always present.

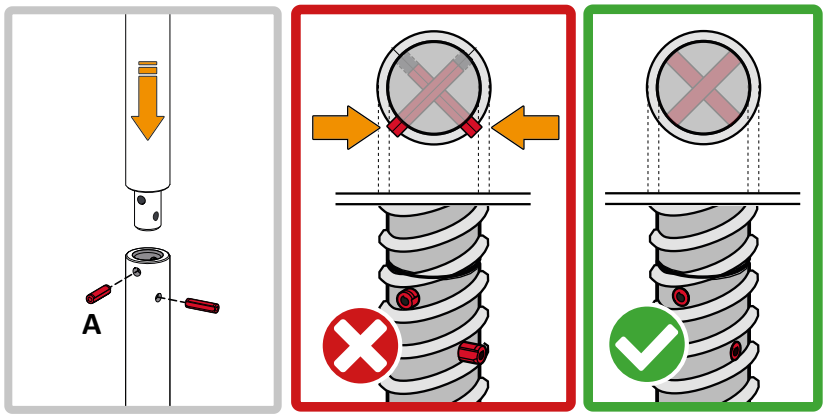




WARNING

THE PROTRUSION OF THE PINS CAN COMPROMISE THE SAFETY OF THE MACHINE

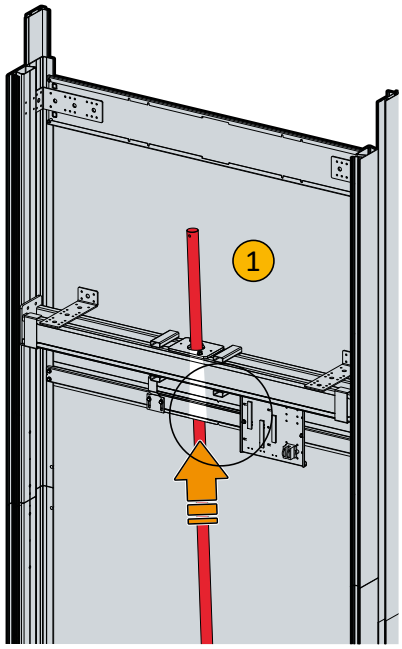
Ensure that the fixing pins do NOT protrude from their seat on either side.



CAUTION

CRUSHING HAZARD
Lift the screw segments using suitable lifting equipment.

WEAR APPROPRIATE PPE



- Insert the assembled screw into the headroom beam.

- ON THE HEADROOM BEAM: position bush, bearing, and nut screw on the screw.
- Screw in the screw so that it protrudes from the headroom beam by approximately 1m.

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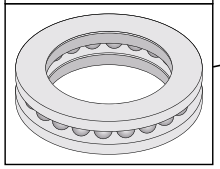
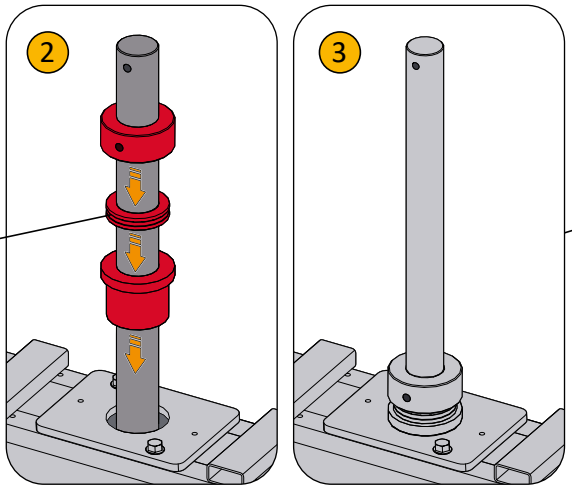
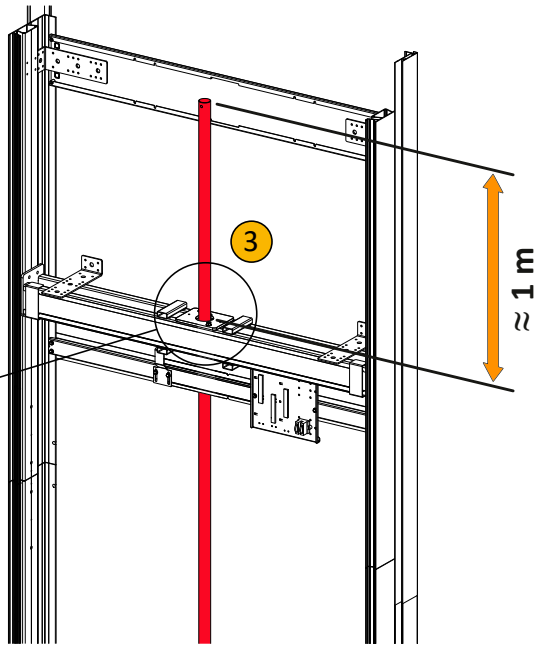






13.08. Platform backboard (with mechanics) - assembly

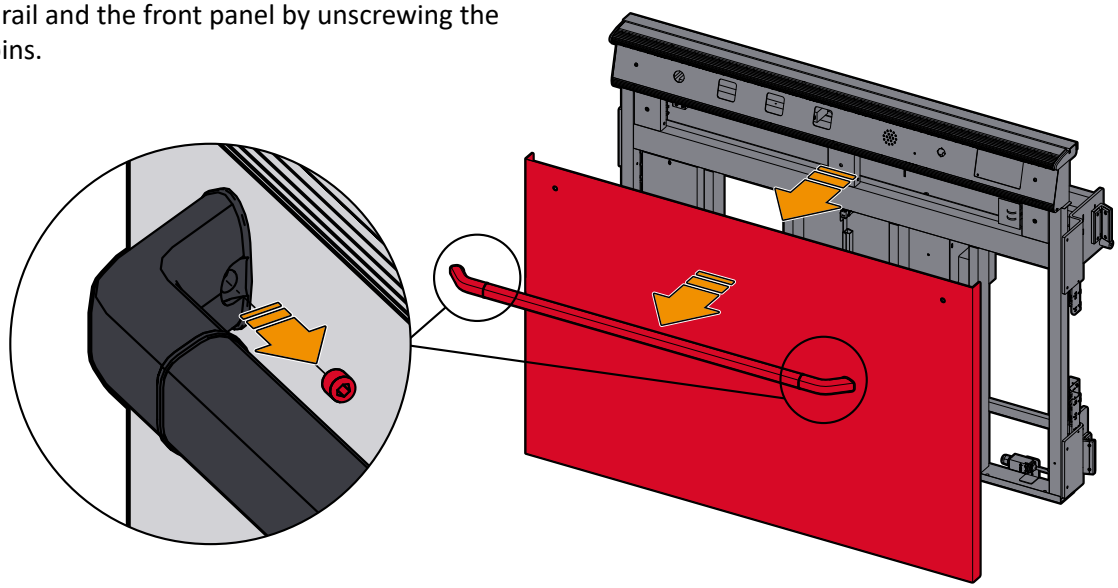
CAUTION	WEAR APPROPRIATE PPE
CRUSHING HAZARD Lift the components using suitable lifting equipment..	

NOTICE

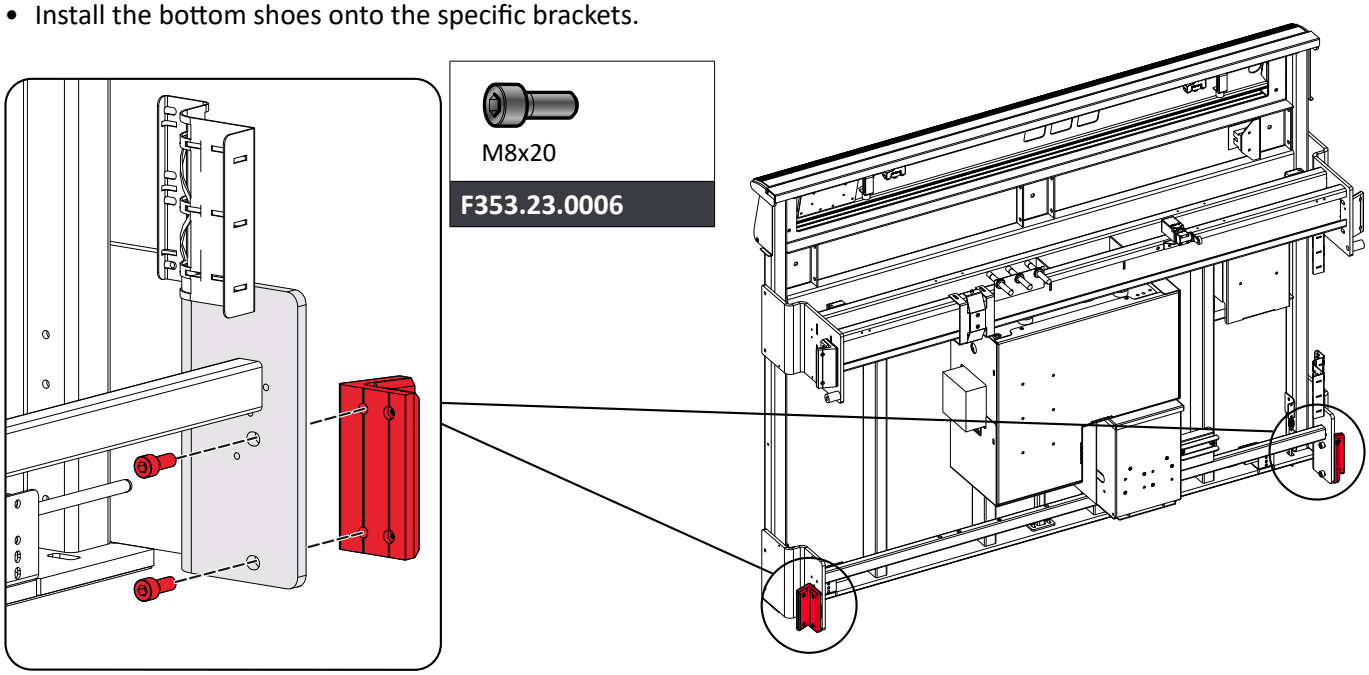
Position and levelling adjustment of the platform is very important: incorrect adjustment of the position and the shoes causes noises and vibrations

The car backboard is supplied pre-assembled.

- Remove the handrail and the front panel by unscrewing the handrail locking pins.



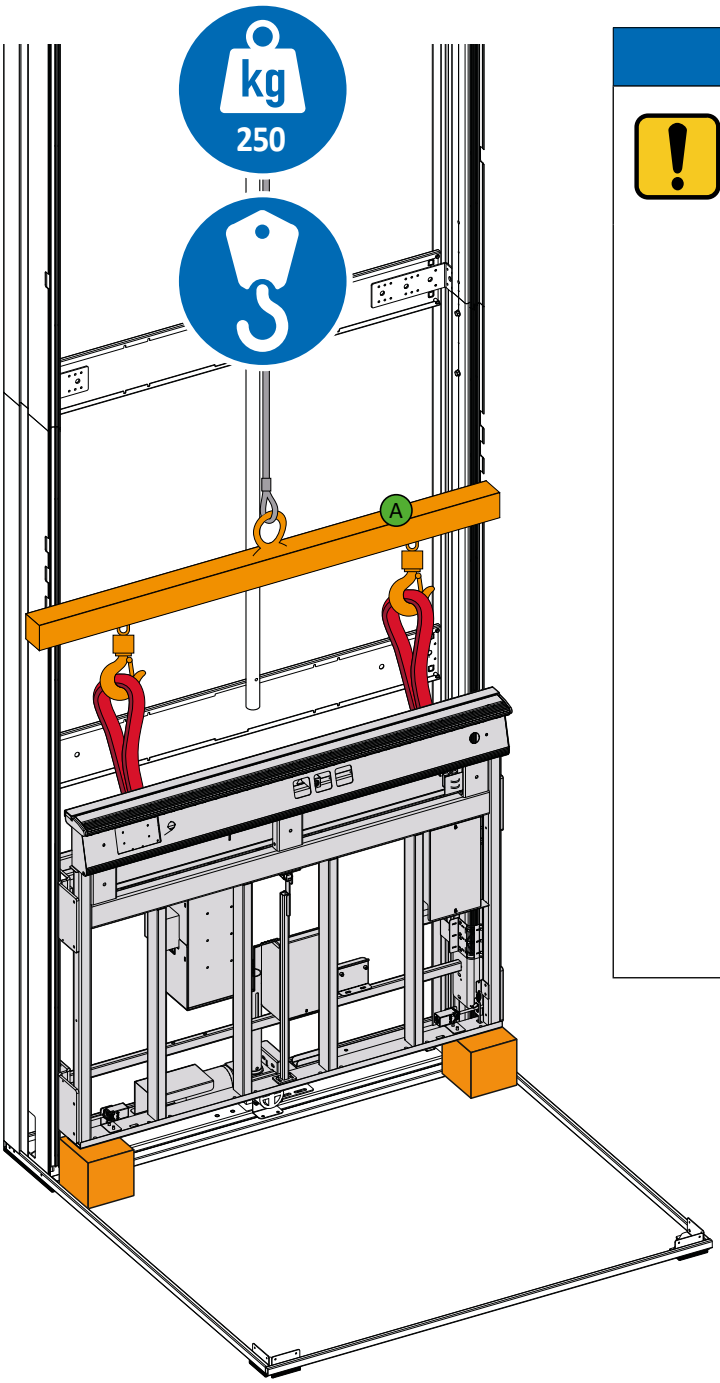
- Install the bottom shoes onto the specific brackets.

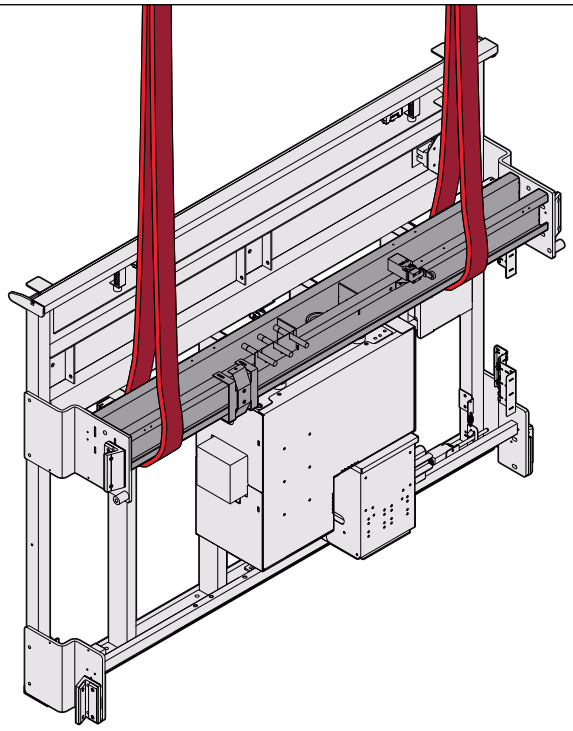


13.09. Platform wall (with mechanics) - handling

CAUTION			WEAR APPROPRIATE PPE
	**DANGER OF CRUSHING** Move/lift the components using suitable lifting gear (see Chapter 9).		

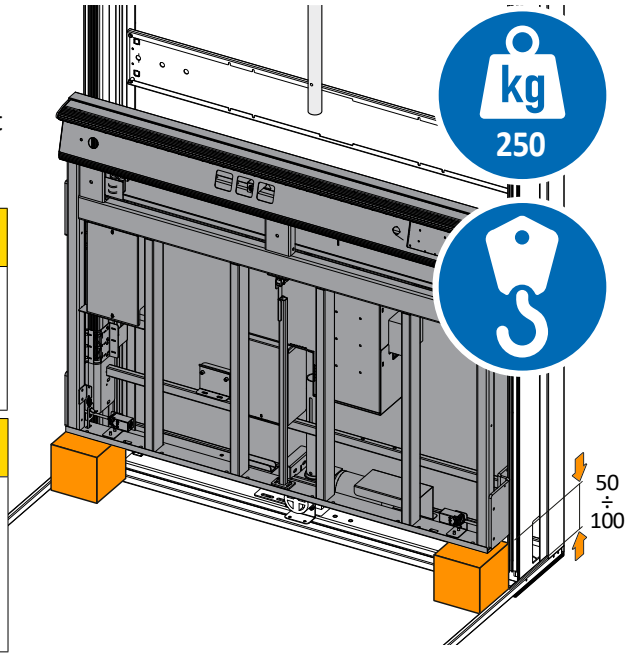
For moving the platform, we recommend the use of a winch/hoist anchored in the head (see Chapter 9) and a lifting sling bar (A).



NOTICE
Attach the lifting slings to the motor beam and NOT to the hand control in order to avoid damage or deformation of the hand control.


13.09.01 PLATFORM WALL - POSITIONING

- Position the platform backboard in the pit, inserting it into the specific discharges provided on the guide rails, keeping it raised with 2 risers (e.g. wooden blocks).



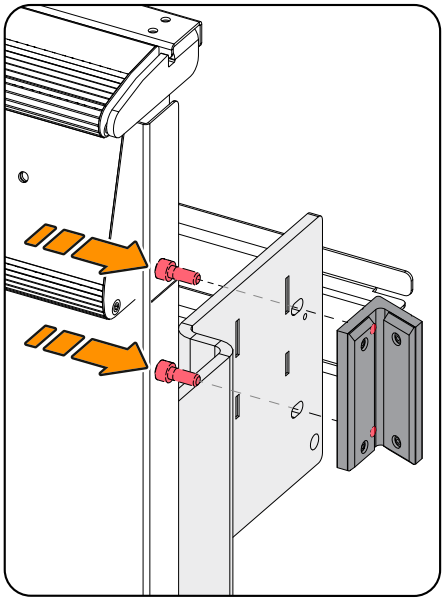
CAUTION

CRUSHING HAZARD
Lift the components using suitable lifting equipment and always wearing appropriate PPE.

IMPORTANT!

The height of blocks on which the platform backboard rests must be AT LEAST 50 mm and MAXIMUM 100 mm in order to be able to easily insert the backboard into its housing.

- Install the top shoes onto the specific brackets.



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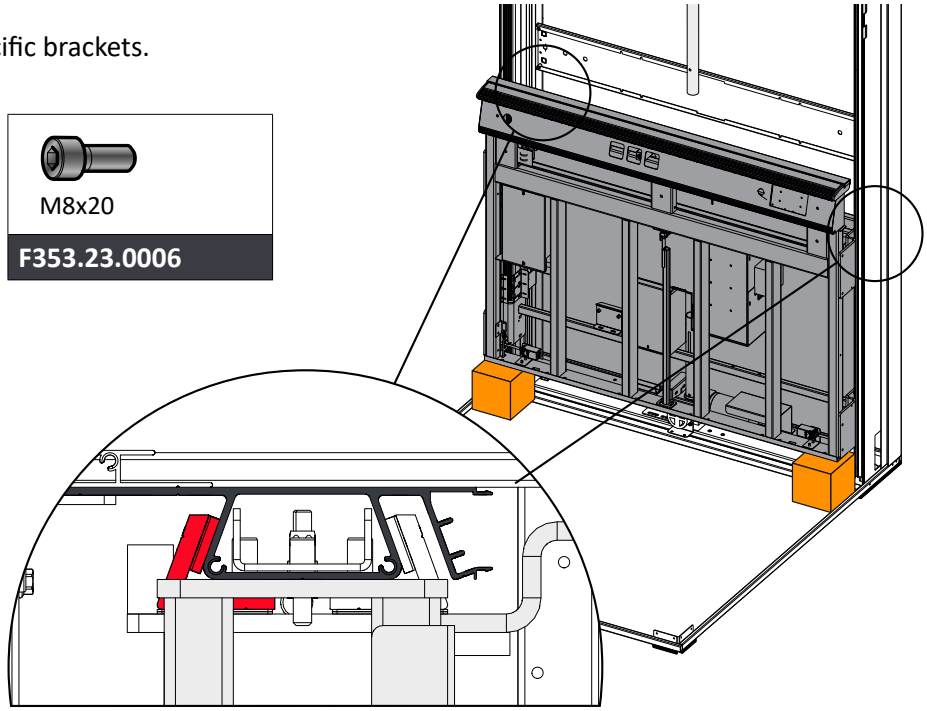
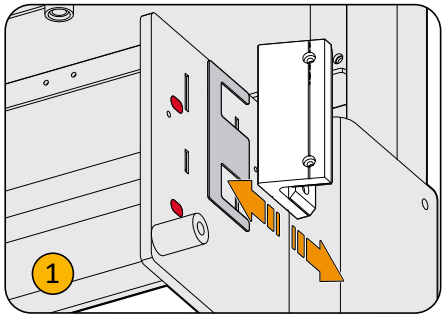
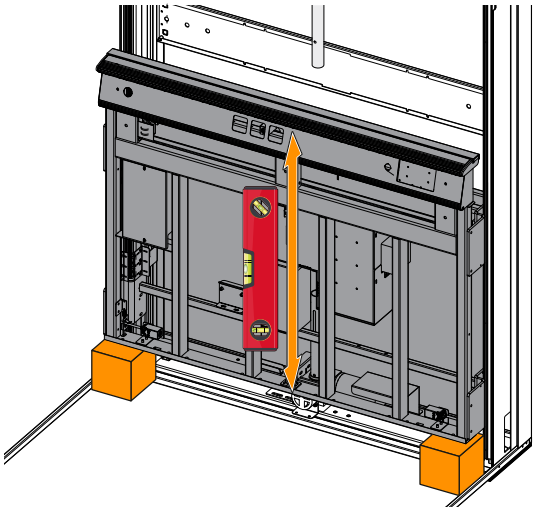


- Check the vertical levelling of the platform backboard. If necessary, adjust the levelling using the slots in the top shoes (1).





TOP SHOES

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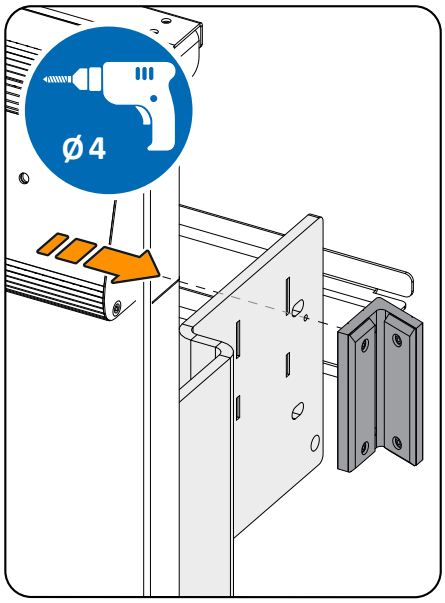
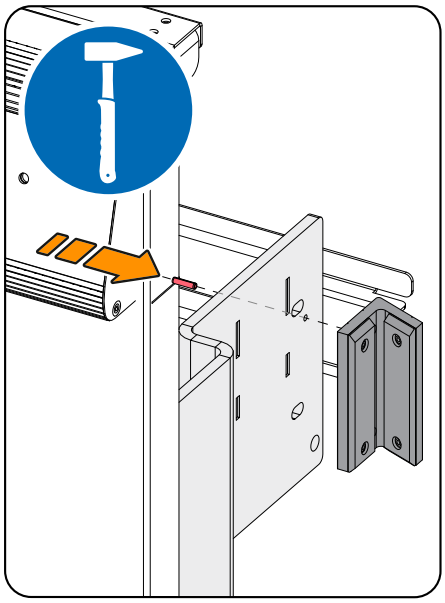
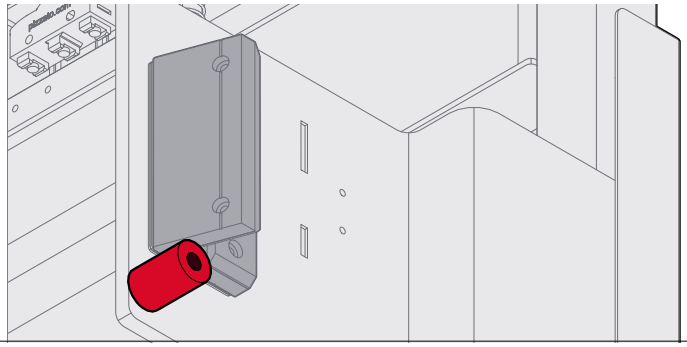


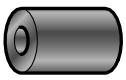


WARNING

MISSING SAFETY PINS CAN COMPROMISE MACHINE SAFETY.

Ensure that **safety pins** are correctly installed.





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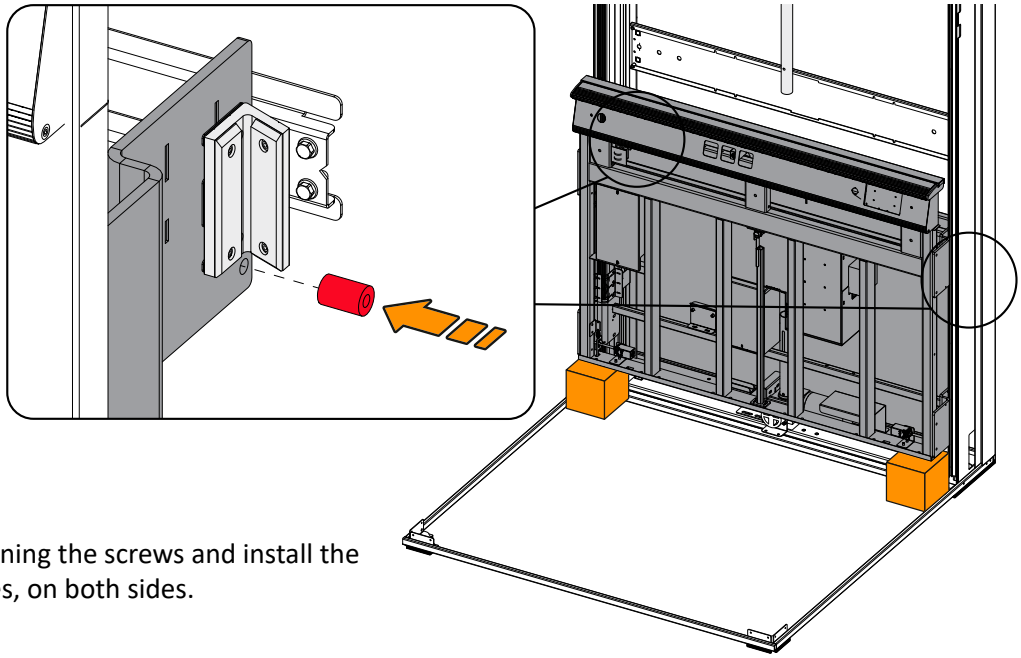
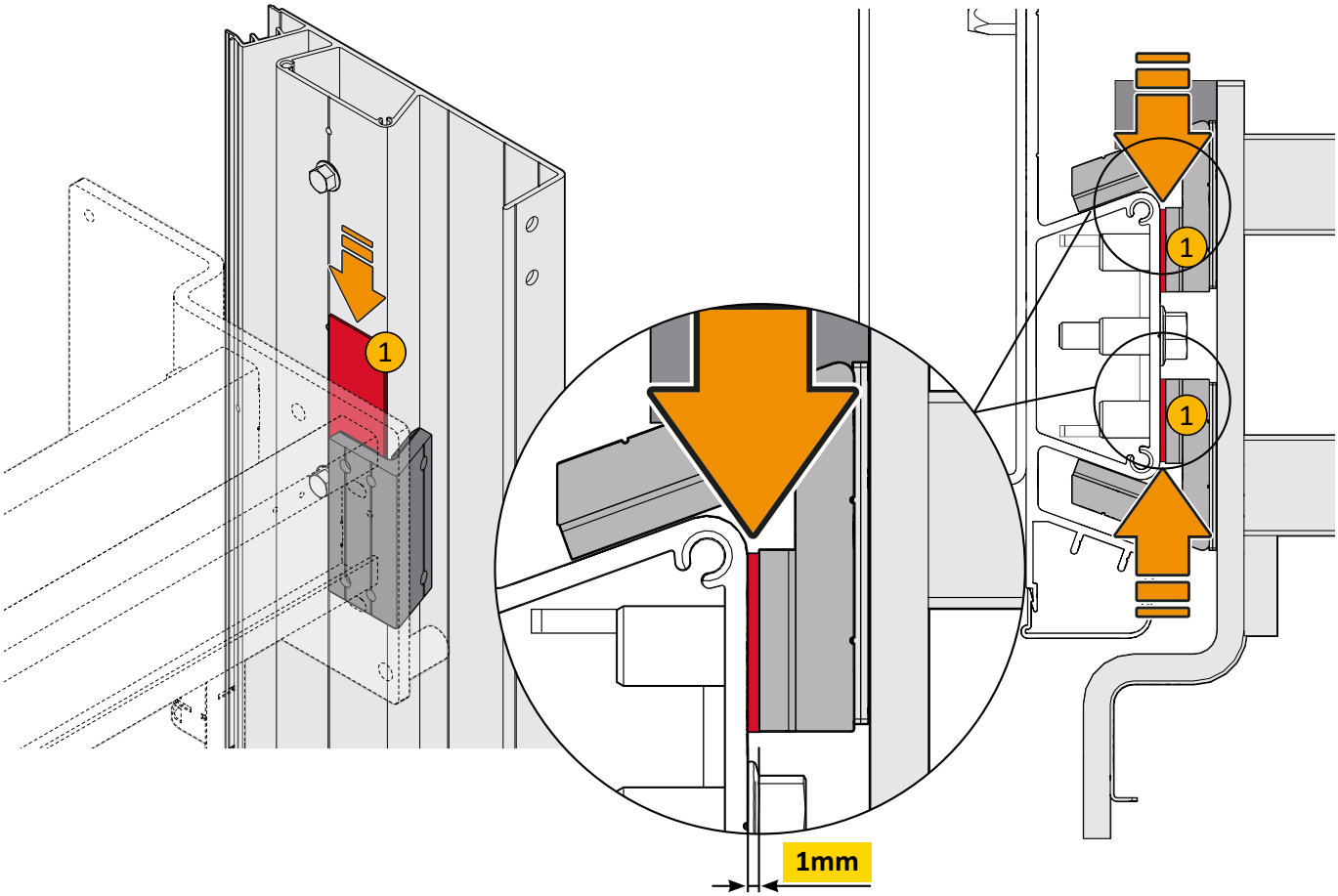


- Secure the shoes by tightening the screws and install the safety pins of the top shoes, on both sides.

13.09.02 SHOES - CORRECT POSIZTIONING

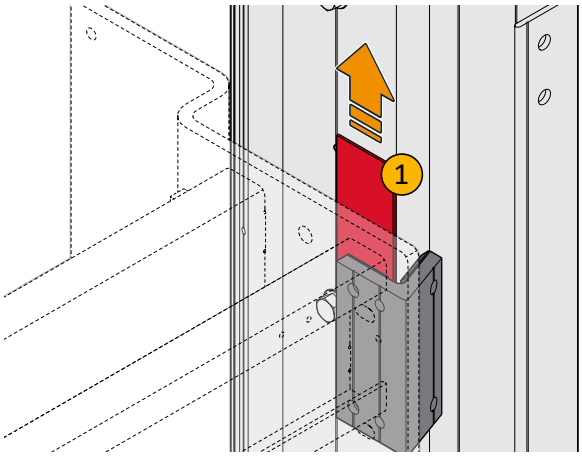
Insert a shim of 1mm (1) between the shoes and the rail guides in order to achieve a 1mm clearance that will allow for optimum operation.



IMPORTANT!

Be sure to remove the shims once the installation of the platform wall is complete.

Failure to remove them may damage the rails guides and platform.

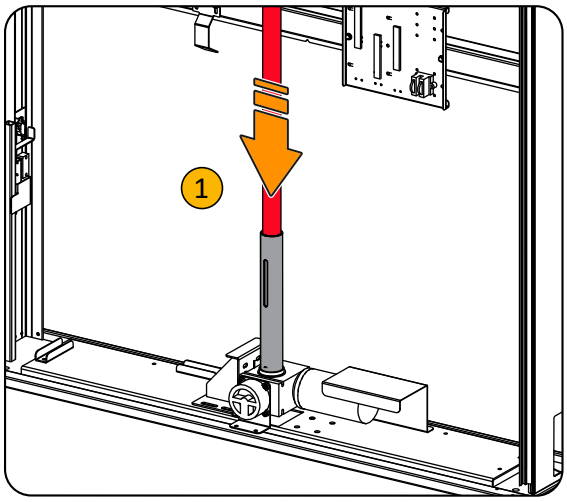


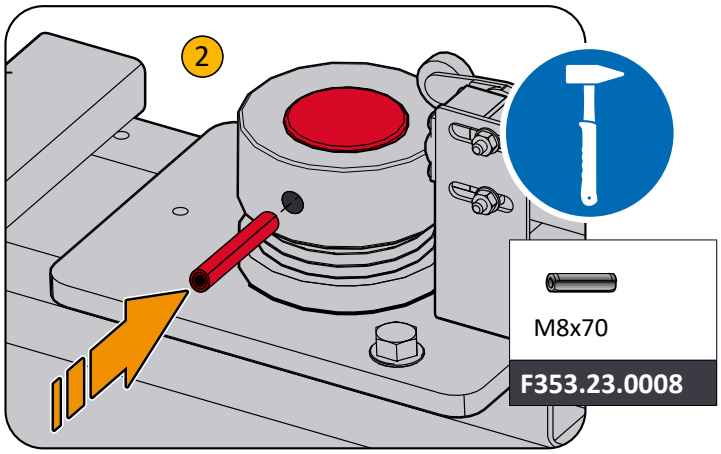
NOTICE

ALWAYS PROTECT THE INTEGRITY OF THE SHOES AND GUIDES..
To prevent damage to the shoes and guides, protect them from accumulation of debris, metal shavings and dirt that could cause irreparable damage during handling.

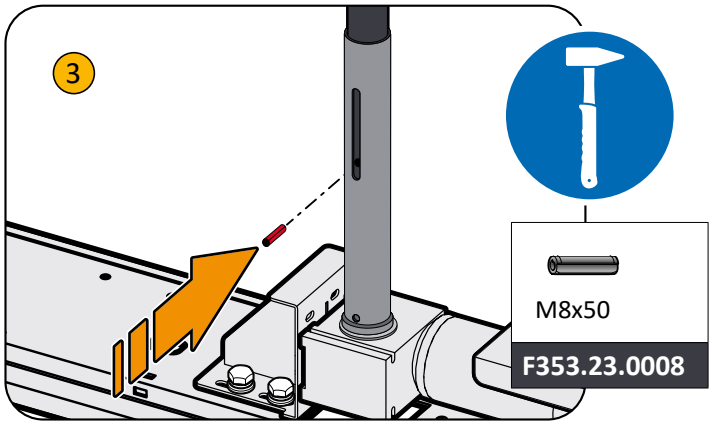
13.09.03 MANOEUVRING SCREW - INSERTION

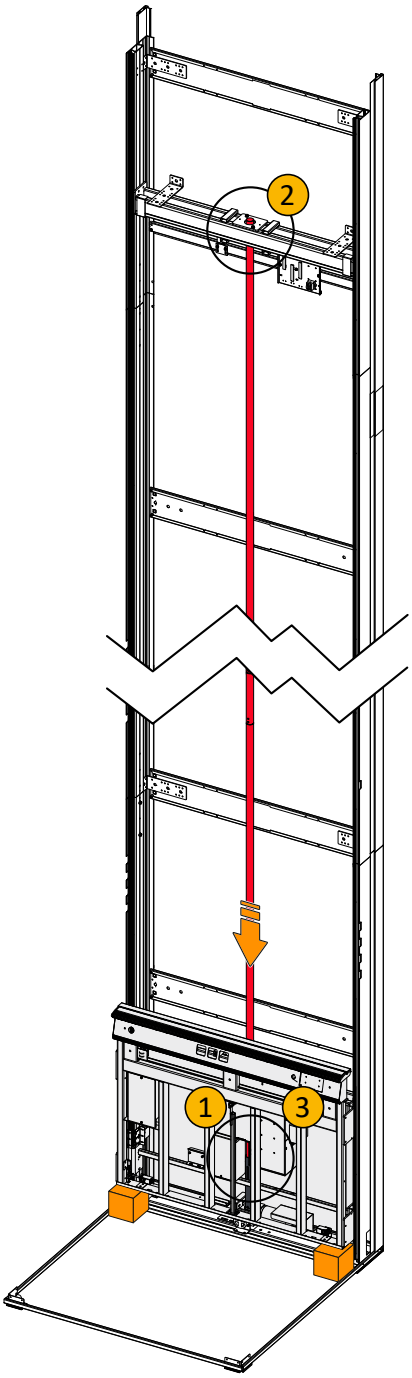
- Lower the manoeuvring screw until it is inserted into the pit bush, passing through the motor of the mechanics assembly (platform backboard) (1).
- Secure the manoeuvring screw to the headroom nut screw using the safety pin provided (2).





- Secure the screw to the pit bush using the safety pin provided (3).

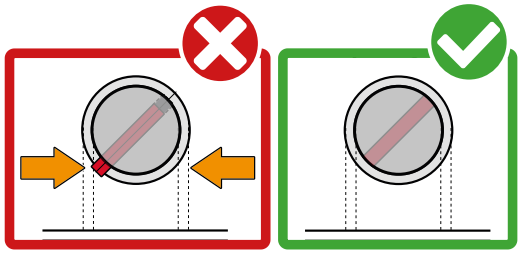




WARNING

ANY PIN PROTRUSION CAN COMPROMISE MACHINE SAFETY

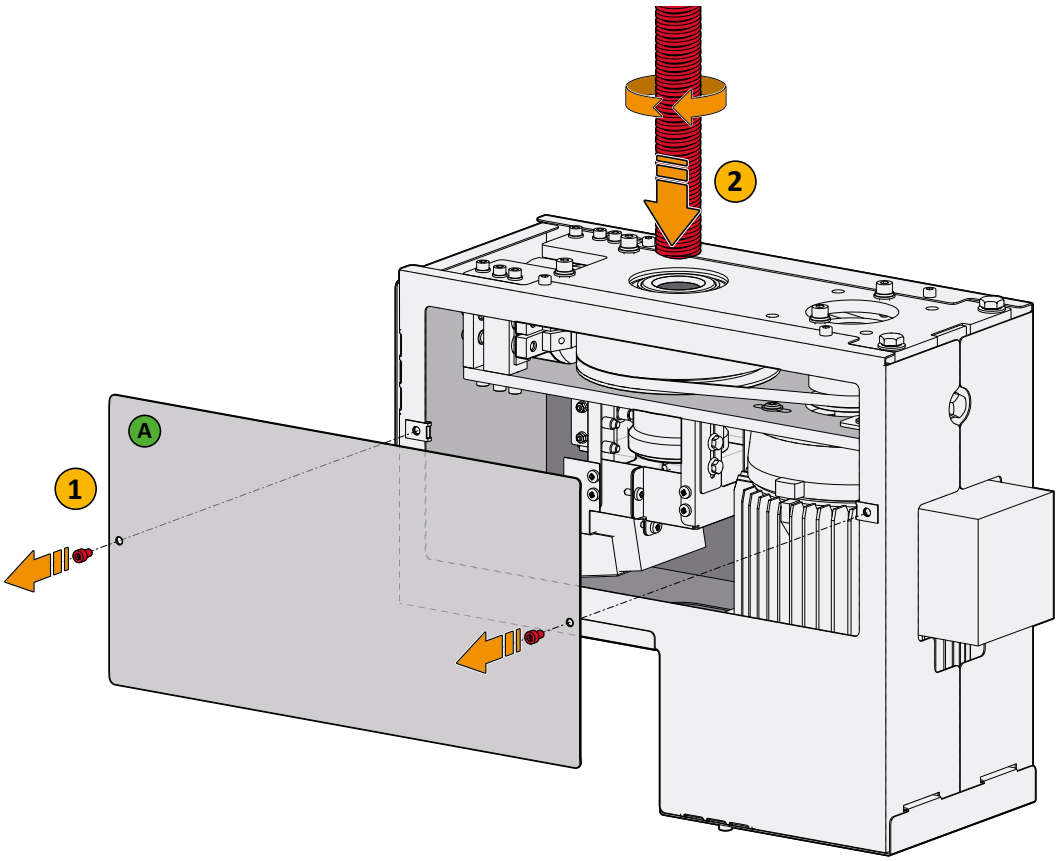
Ensure that **fixing pins do NOT protrude** from their seat on either side.



13.10. Safety nut - verification of correct spacing

1 Remove the 'silent box' cover A to access the engine compartment.

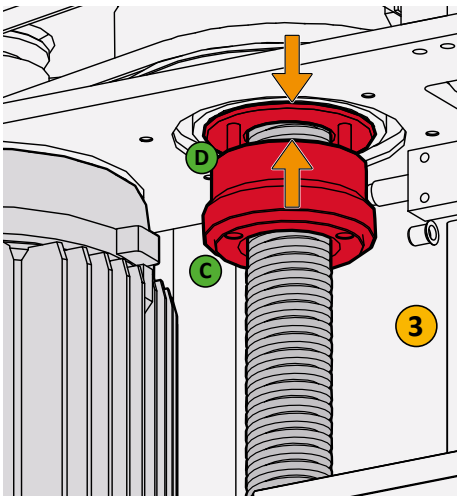
2 Insert the Lead Screws B into the lead nut D and the safety lead nut C .

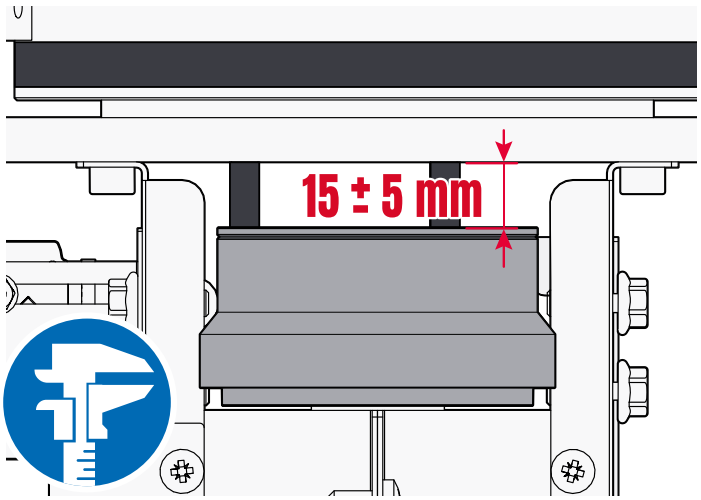


3 Ensure that the installation is carried out correctly (see below).

NOTICE

Ensure that the nominal distance between the nutscrew A and the pulling device B is 15 mm (with a tolerance of +/- 5 mm).





13.11. Flat cables - installation and connection

The cable is pre-assembled on the platform car sling.

The exact dimension of the bracket is shown in the assembly diagram provided.

- Position the cable support bracket (1) on the transom positioned at a height equal to

$$H > \frac{\text{travel}}{2}$$

with respect to the lowest access.

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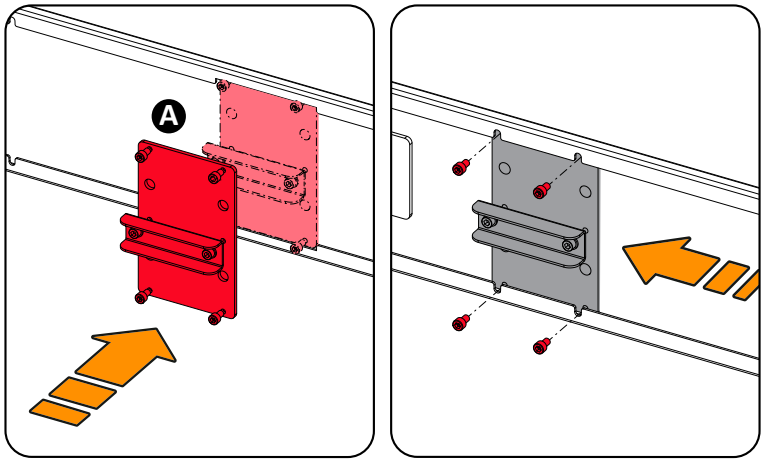
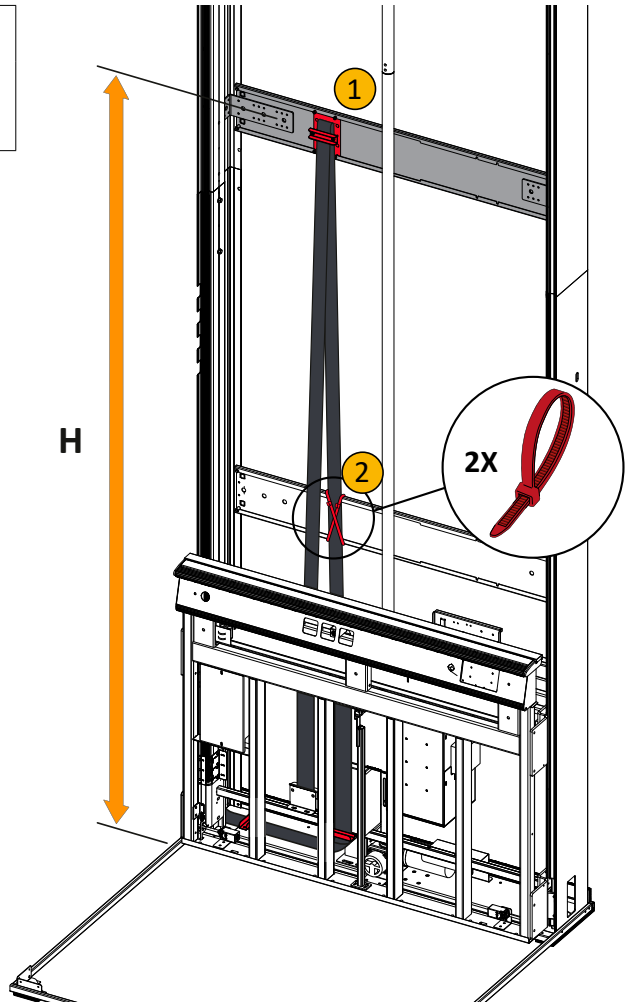


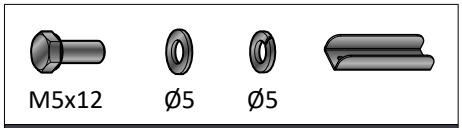


Unwind the cable starting from the platform wall and secure it to the cable support bracket (1) on the beam.
Route the cable toward the pit template and secure it by positioning the brackets provided.

Secure the cable to the beam every 2 m approximately by means of electrician cable ties as indicated in point (2).

IMPORTANT!

Route the cable so that the folds are soft and do not damage the cable itself.



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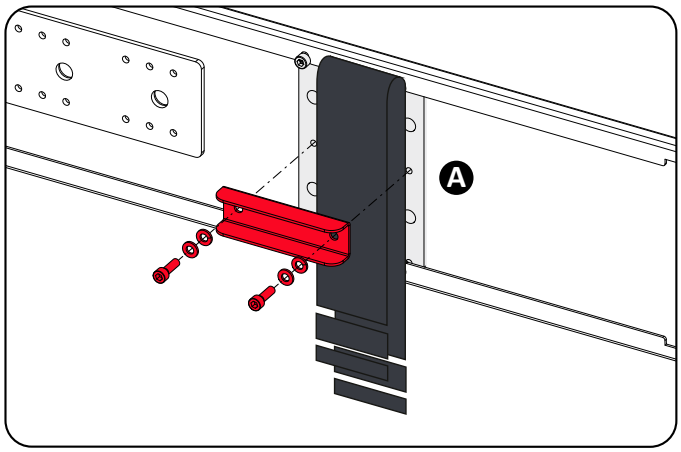
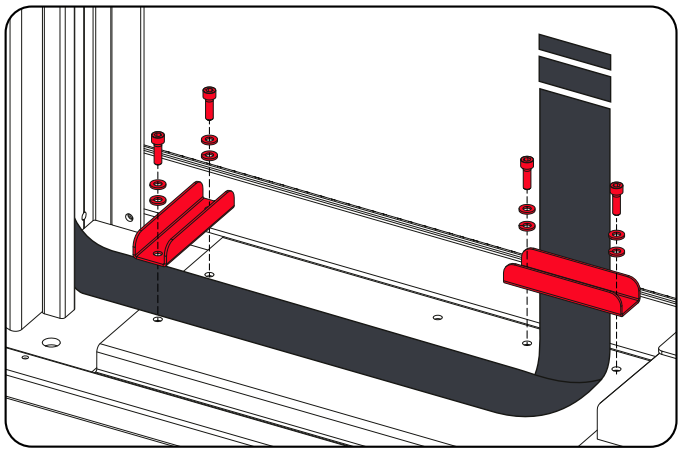
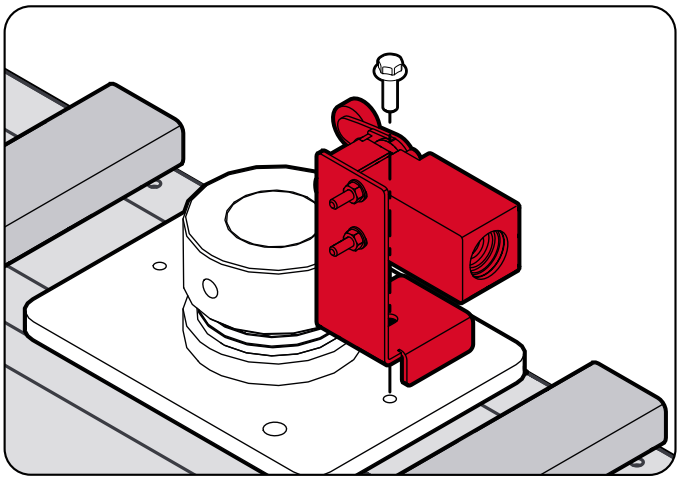
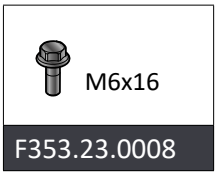




13.12. Safety contact in the headroom

- Place the headroom safety contact on the headroom beam.





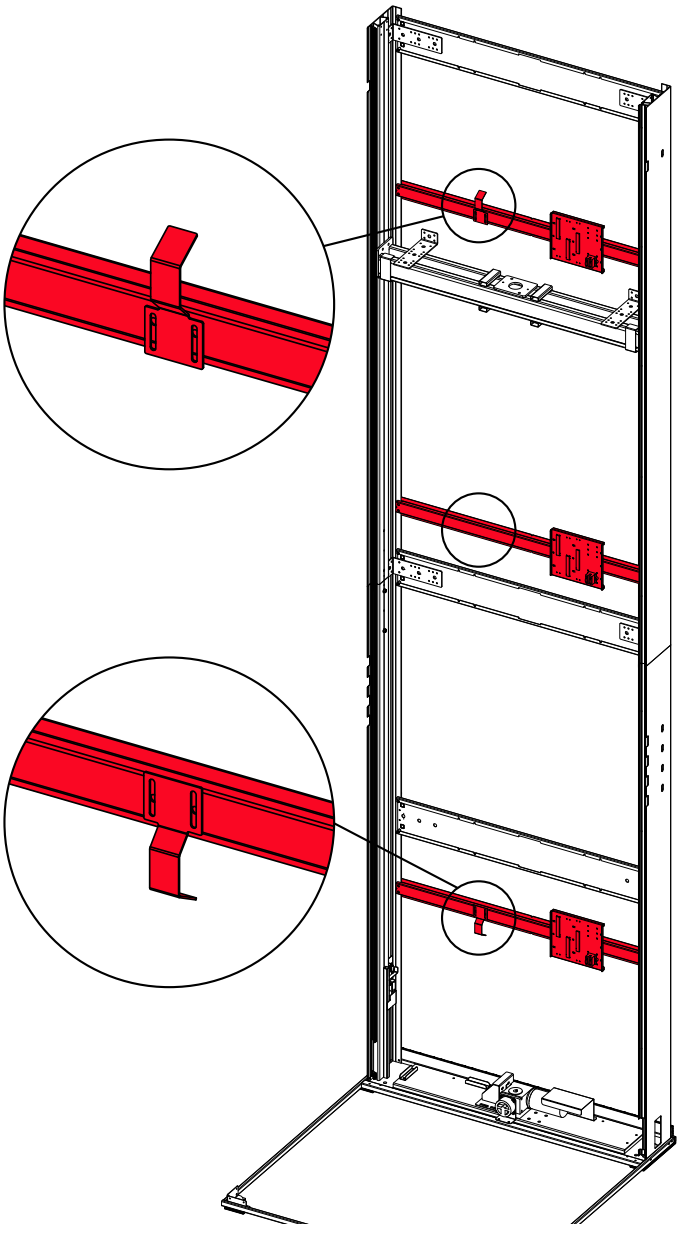
13.13. Magnet support brackets - contacts - ramps

Pay attention to the positioning of the magnet support brackets:

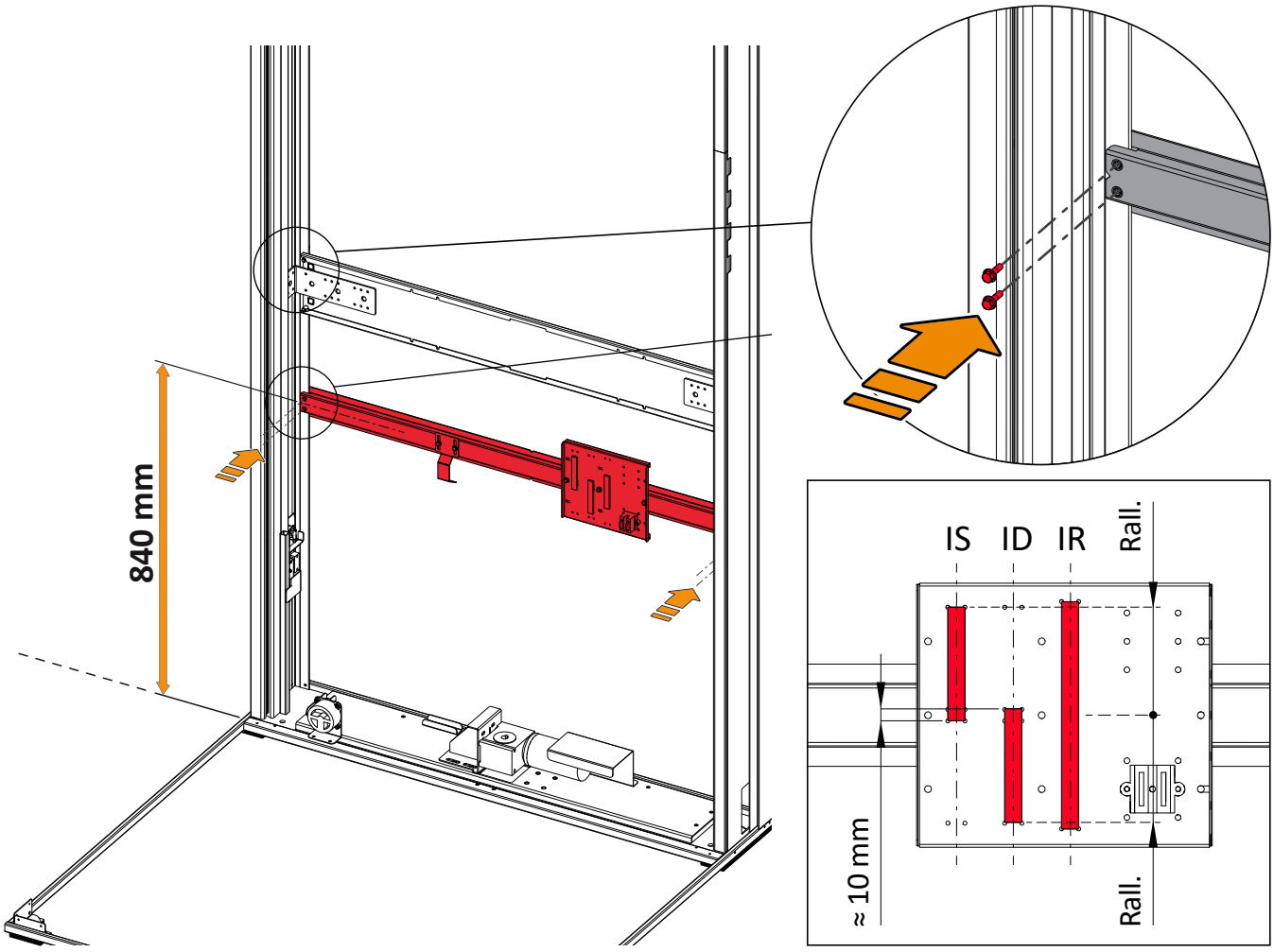
IN THE HEADROOM, the bracket with the overtravel contact must be positioned facing down (bottom overtravel).

ALONG THE SHAFT, the brackets (if any) should be placed WITHOUT the pre-assembled contact.

IN THE PIT, the bracket with the overtravel contact must be positioned facing up (top overtravel).



- Position the magnet support brackets so that the centre of the bracket (identified by the reference notch) is at a distance of 840 mm from the floor level.
- Adjust the position of the magnets (IS, ID and IR) as shown in the figure: the magnet support plate is provided with holes to ease magnet alignment.



The IR magnet is located on the lowest access only.

- Repeat the procedure for each access.

13.14. Electric connections for first start-up

The electrical panel is inside the lowest access landing door jamb.
The door must be already installed (even temporarily, following safety requirements) in order to make the connections.

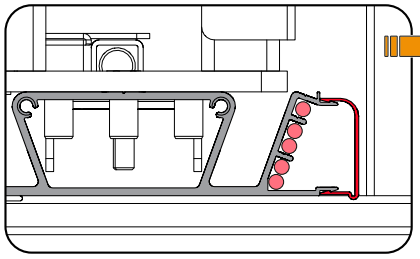
For electrical connections, refer to the manual IM.TEC.129 “ELECTRICAL EQUIPMENT (U.D.E.C.) INSTALLATION AND DIAGNOSTIC INSTRUCTIONS” and to the system wiring diagram.

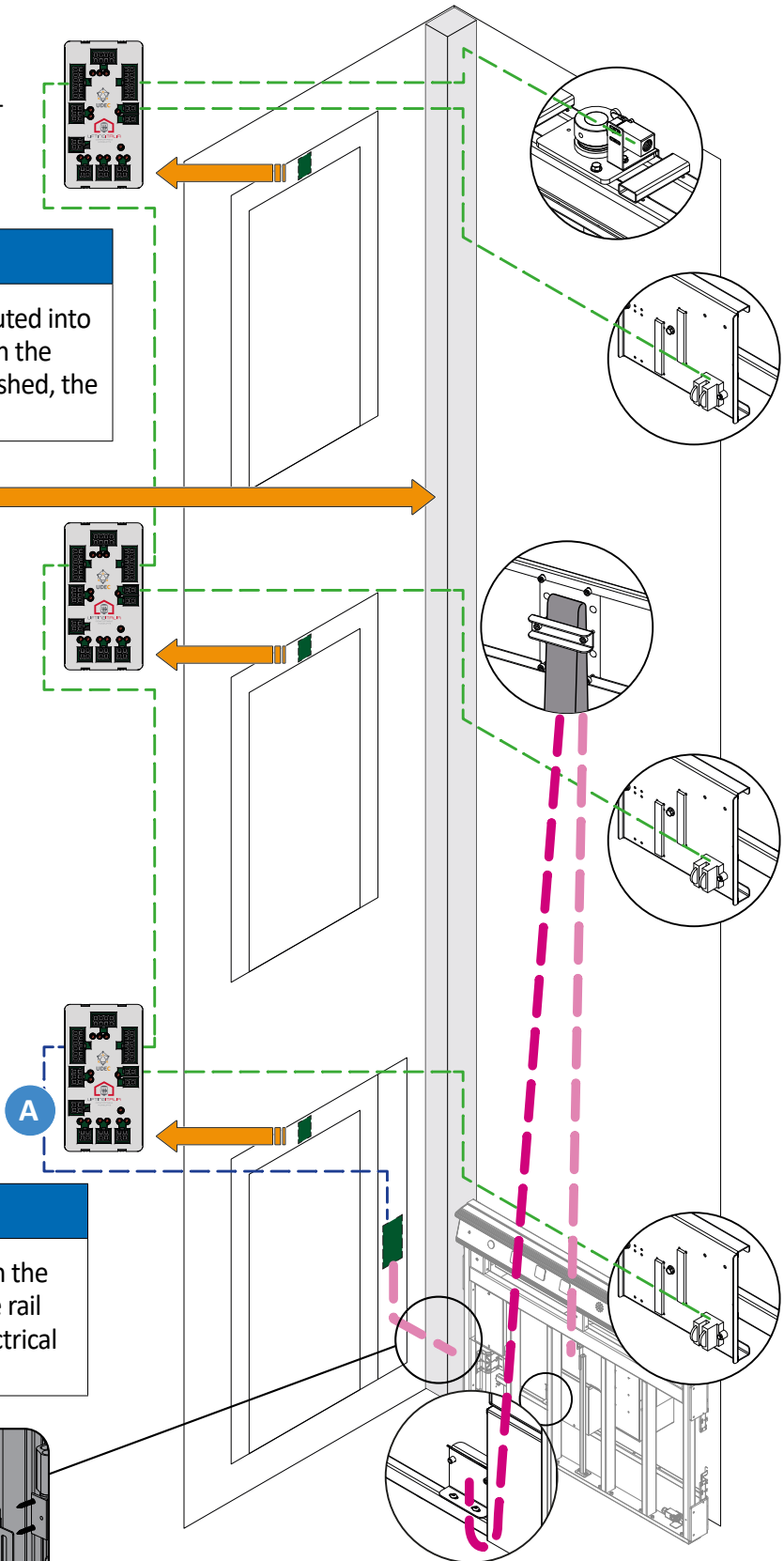
13.14.01 SHAFT ELECTRICAL CONNECTIONS

- wire the electrical components as they are installed.
- The shaft electric line **A** must be the LAST connection to the electrical panel.

NOTICE

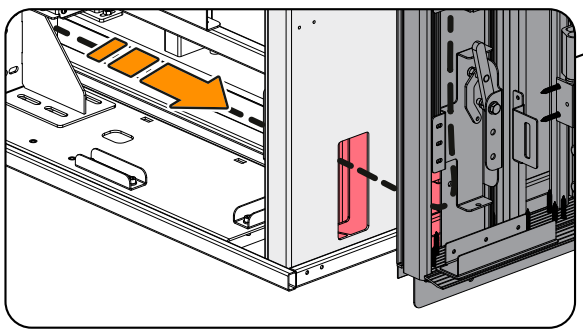
The electrical cables must be routed into the compartment prearranged in the guide rail. Once the wiring is finished, the snap-on guard can be installed.



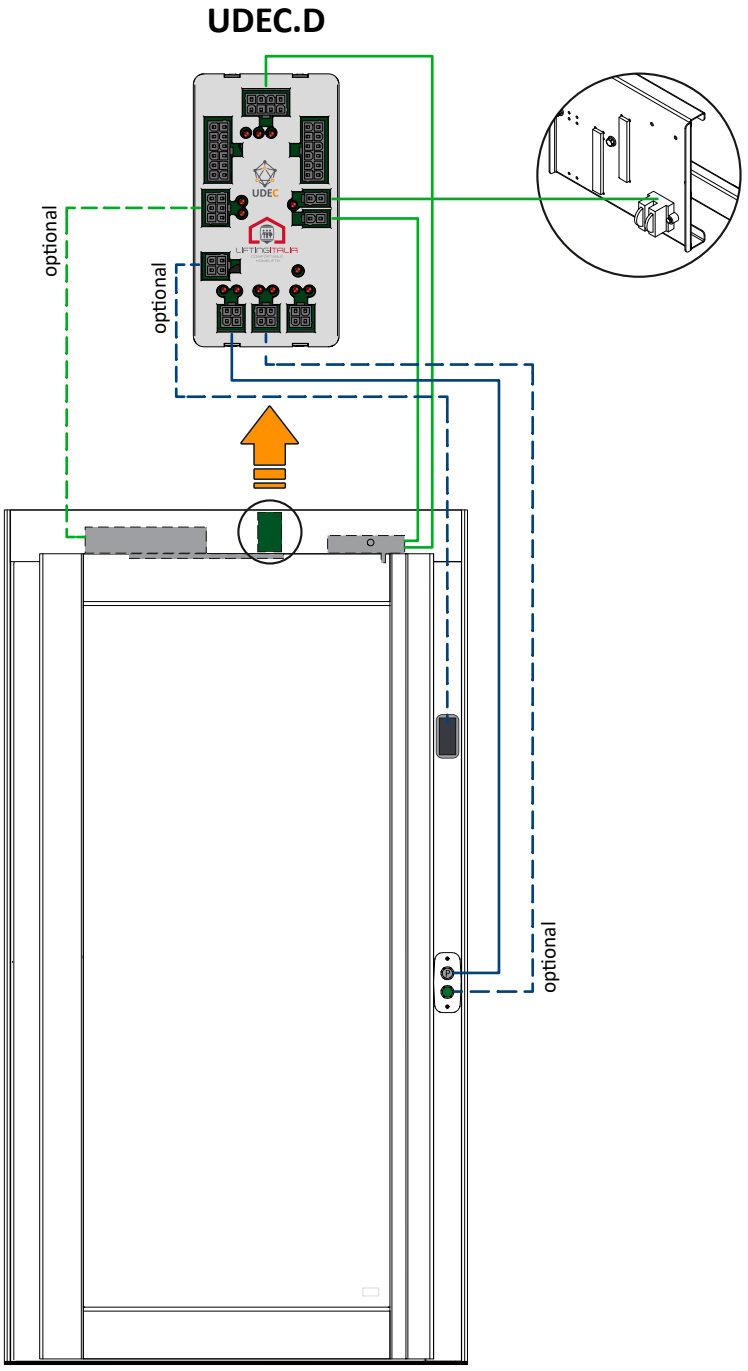


NOTICE

The flat cables must be routed in the through hole between the guide rail and the door containing the electrical panel, at the bottom of the pit.

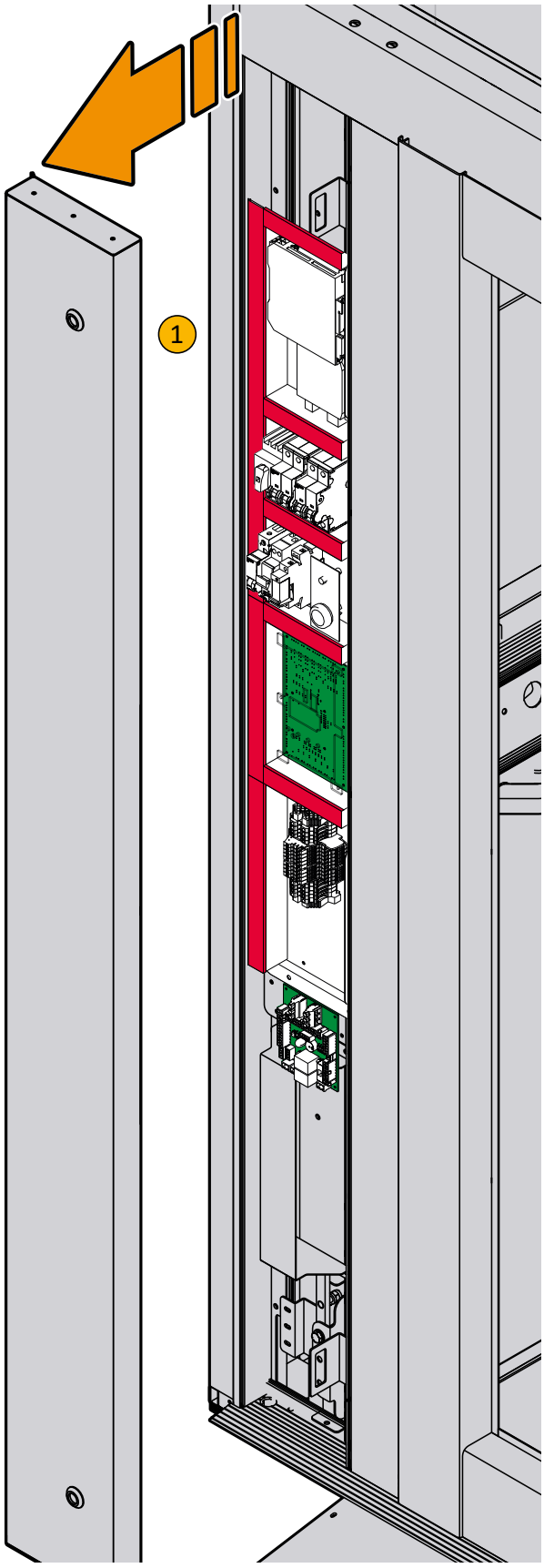


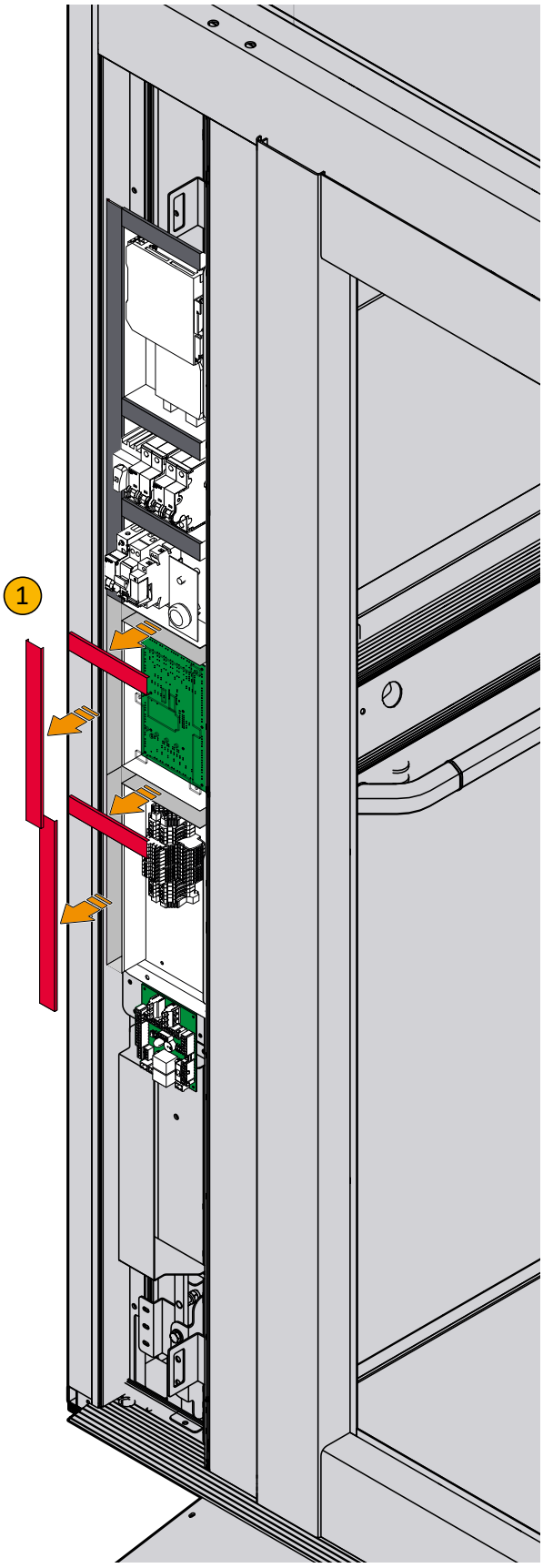
13.14.02 ELECTRICAL CONNECTIONS OF THE DOORS



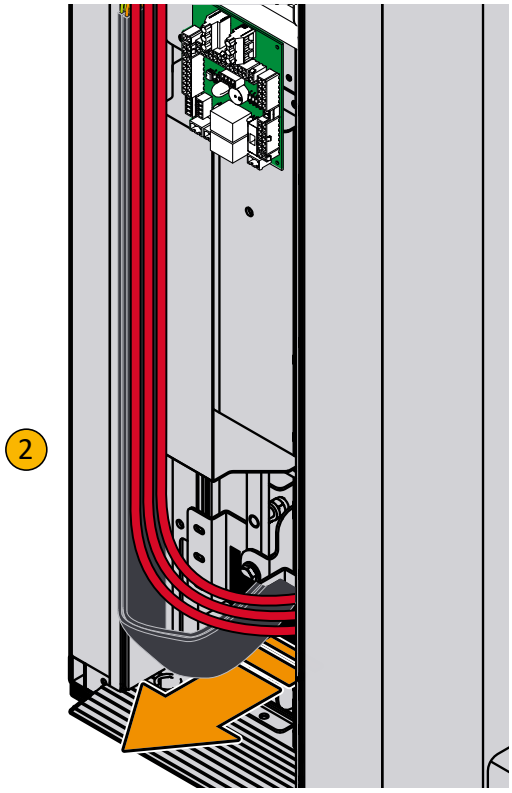
19.01.02 CONTROL CABINET - CABLE ROUTING

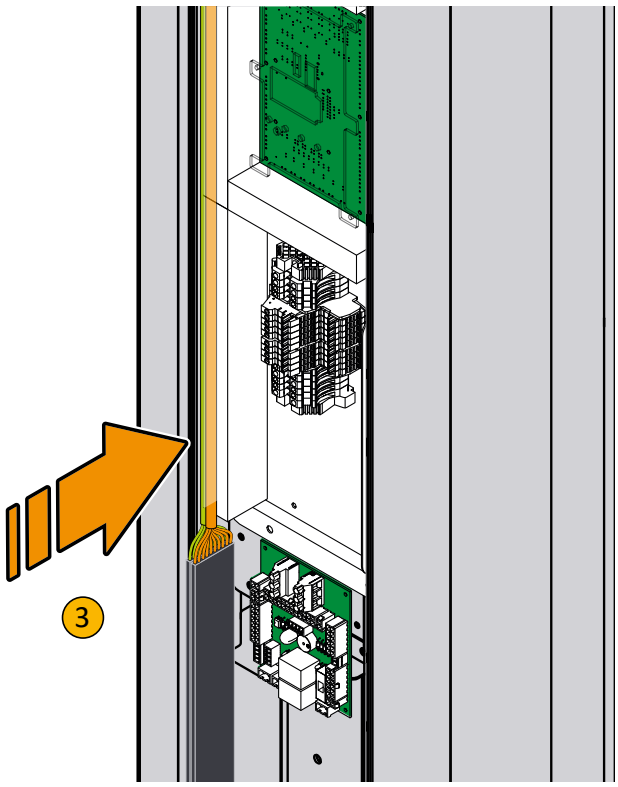
- Remove covers from cable tray (1).



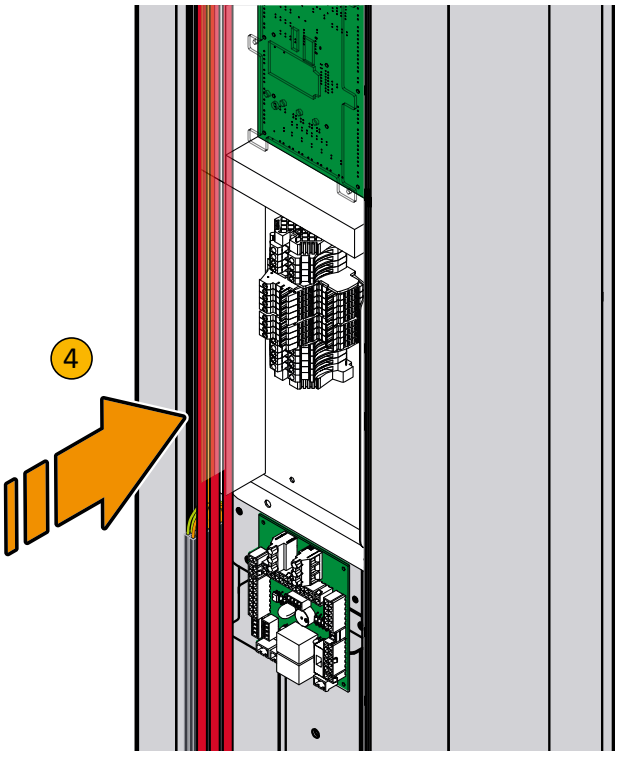


- From the shaft, insert the cables into the control cabinet through the opening provided (2).





- Insert flat cables (3) and main wiring (4) into the cable tray.



- After making the necessary connections, secure with cable ties and close the cable tray.

13.15. Before operating the platform

NOTICE

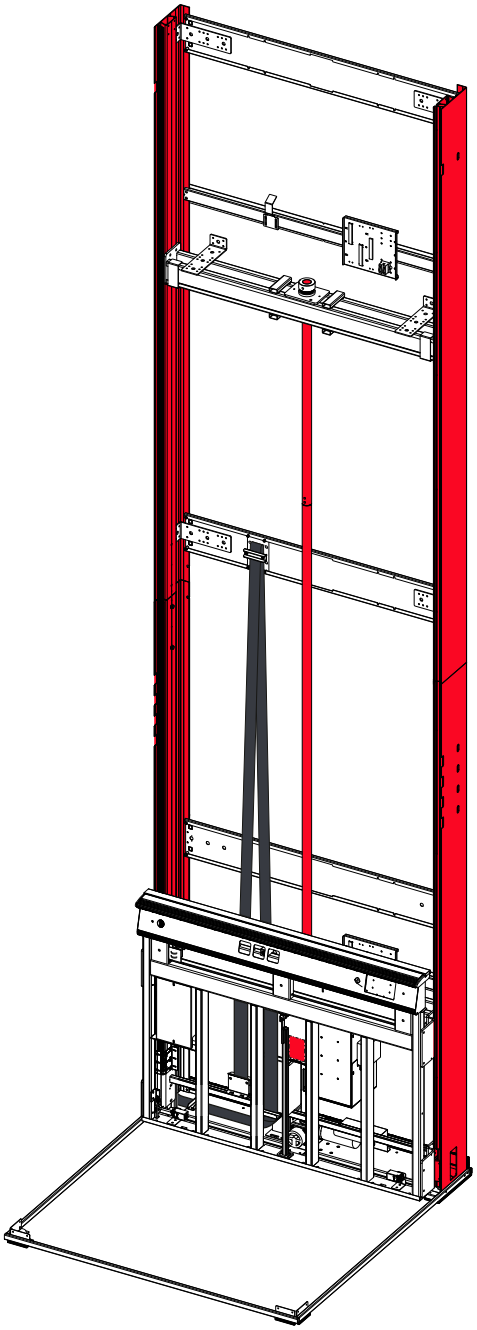
LUBRICATE ALL GUIDE RAILS WITH SILICONE SPRAY OIL SUPPLIED WITH THE SYSTEM (F353.05.9017).

LUBRICATE THE SCREW WITH THE SUPPLIED LUBRICATING OIL EP 220 (KIT F352.23.0001).

FILL THE LUBRICATOR WITH THE SUPPLIED LUBRICATING OIL EP 220 (KIT F352.23.0001).

NOTICE

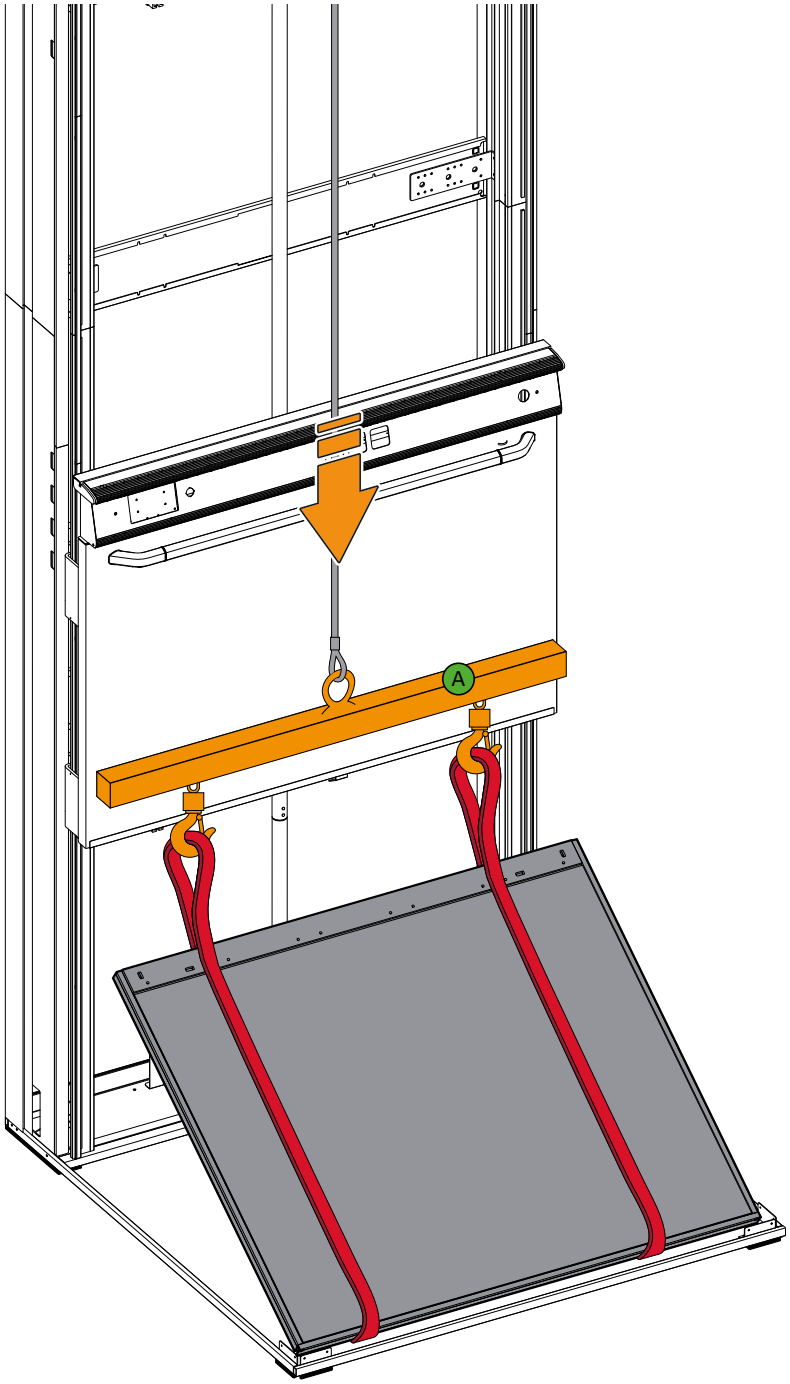
DURING THE FIRST RUN, CHECK THAT THE FLAT CABLE MOVES CORRECTLY WITHOUT HINDRANCES ALONG THE ENTIRE TRAVEL.



13.16. Platform floor - handling

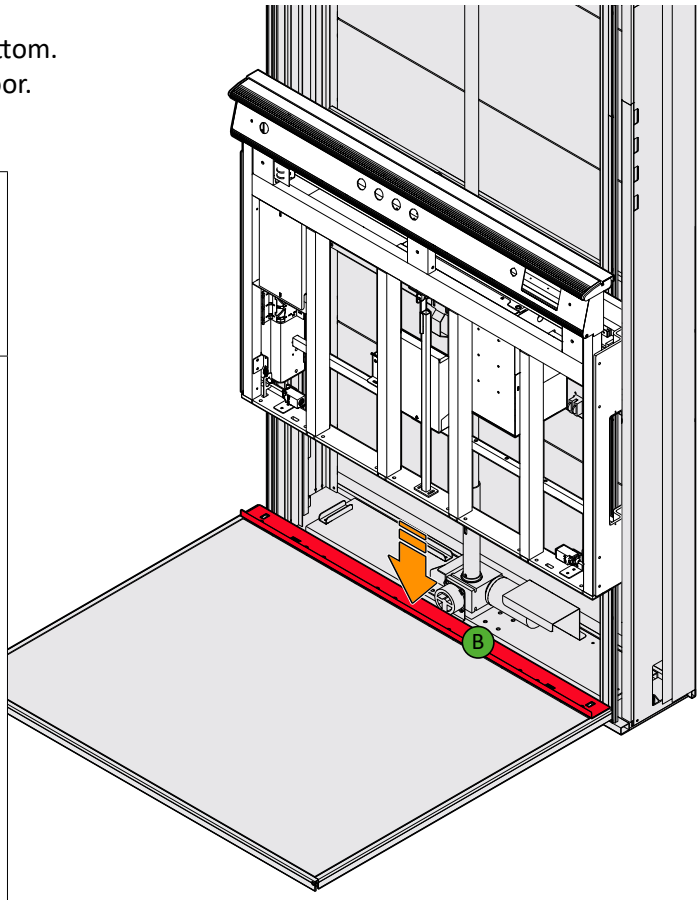
CAUTION			WEAR APPROPRIATE PPE
	**DANGER OF CRUSHING** Move/lift the components using suitable lifting gear (see Chapter 9).		

For moving/lifting platform components we recommend the use of a winch/hoist anchored in the head (see Chapter 9) and a lifting sling bar (A).

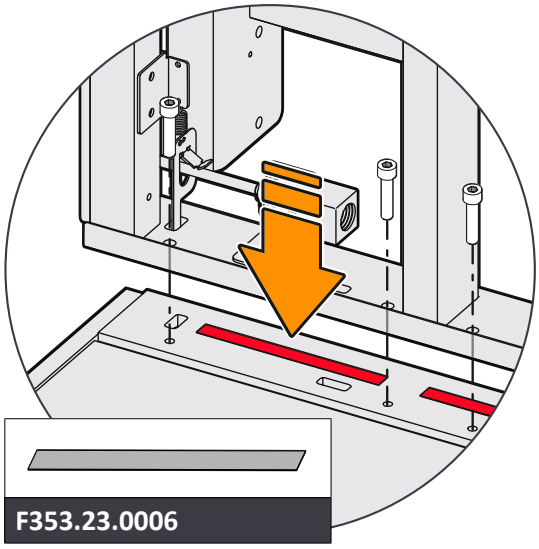


13.17. Platform floor - installation

- Lift the platform backboard along the screw and remove the risers.
- Position the platform floor by resting it on the pit bottom.
- Lower the platform backboard until it touches the floor.

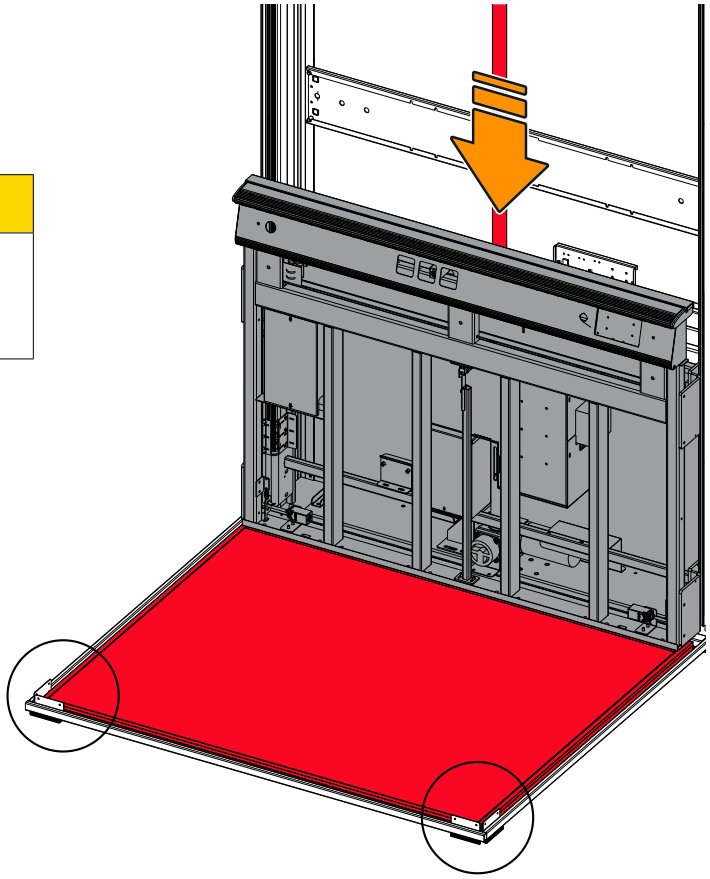


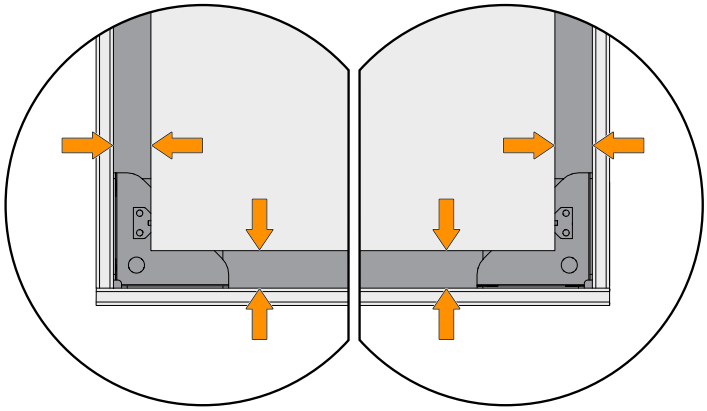
LEVELLER SHIMS
If it is necessary to correct the inclination of the footplate floor, insert the leveller shims behind the fixing screws..



IMPORTANT!

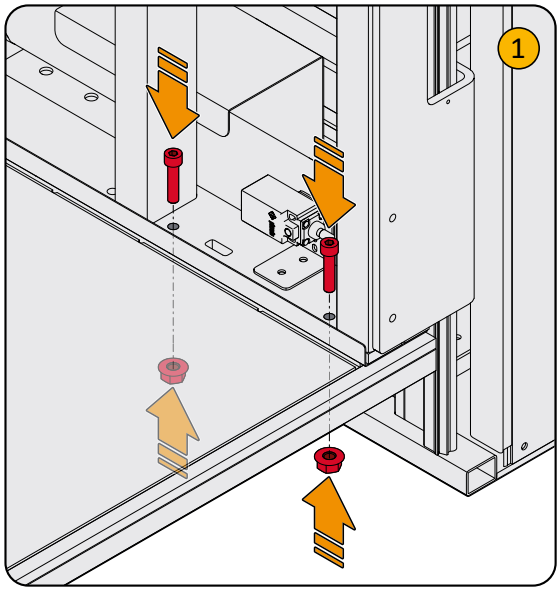
Adjust the position of the floor so that it is equidistant from the edge of the shell.

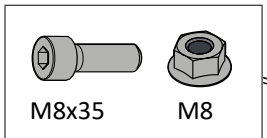




- Fix the floor with the screws provided (1).

WARNING
FAILURE TO DO SO MAY IMPAIR THE SAFETY OF THE MACHINE.
Screws must be SCHS M8x35 CLASS 12.9 DIN 912 - UNI 5931 - ISO 4762
Observe the tightening torques indicated. (MIN 17 Nm, MAX 21 Nm)





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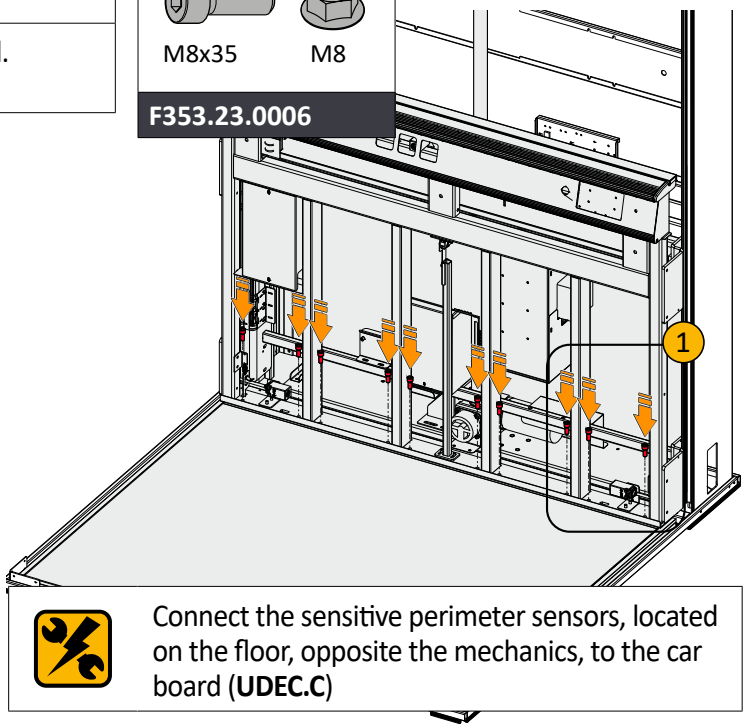


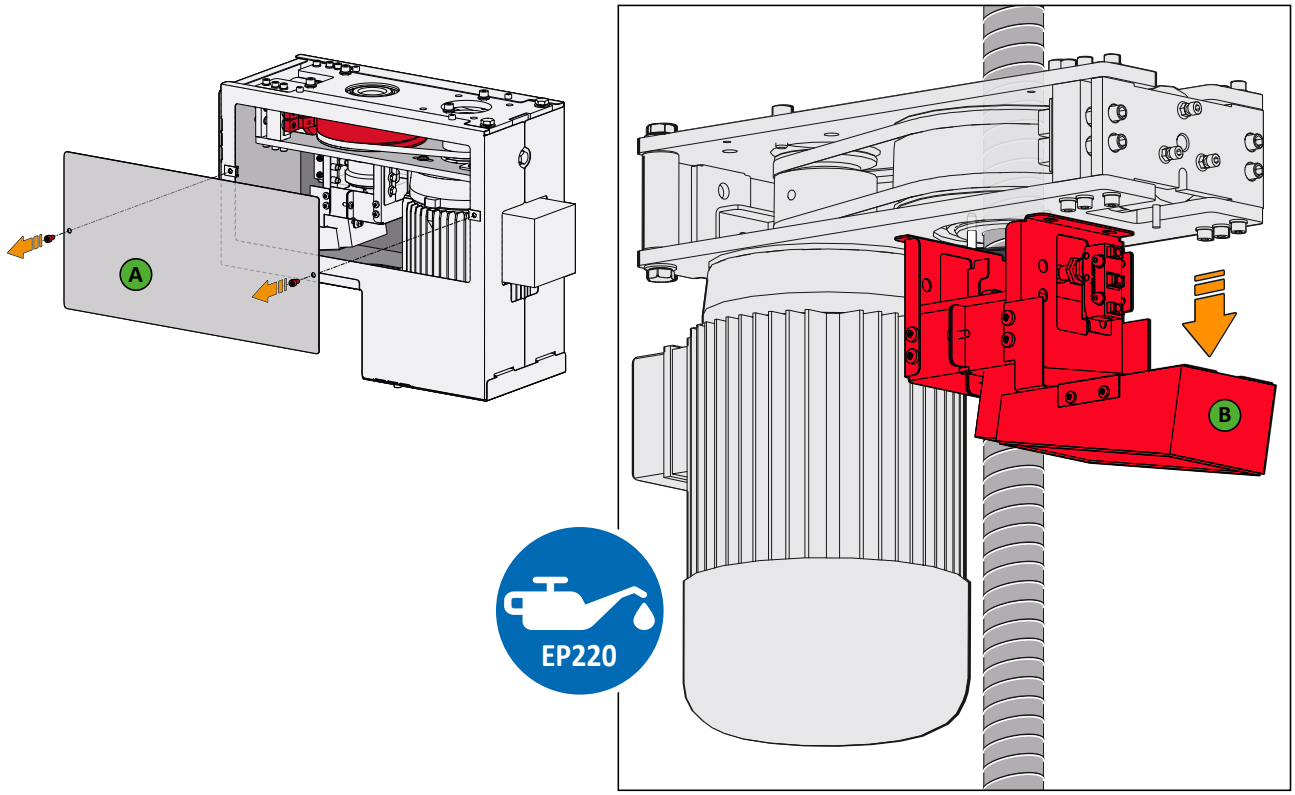
Connect the sensitive perimeter sensors, located on the floor, opposite the mechanics, to the car board (**UDEC.C**)

13.18. Oil tank - filling

IMPORTANT!	
OIL TANK - CORRECT FILLING! Correct filling is achieved by the following procedure: 1. Gradually pour the specified oil onto the sponge 2. Crush the sponge so that the poured oil is absorbed. 3. Repeat the procedure until the sponge is completely impregnated.	USE ONLY THE SPECIFIED OIL (5W-40)

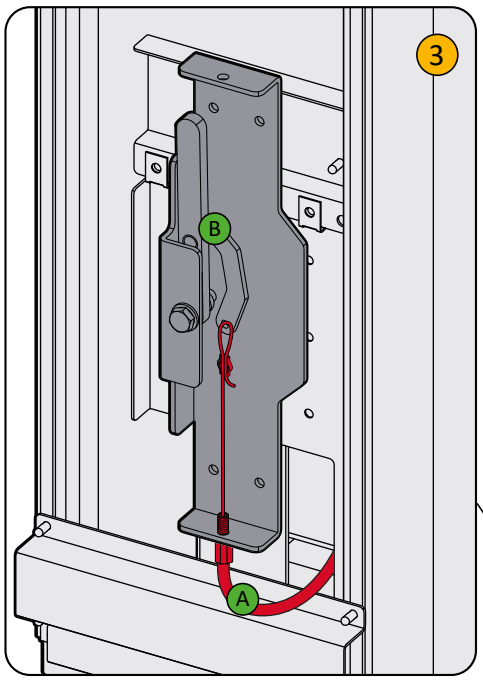
1. Remove the cover of the 'silent box' A to gain access to the drive screw lubrication tray.

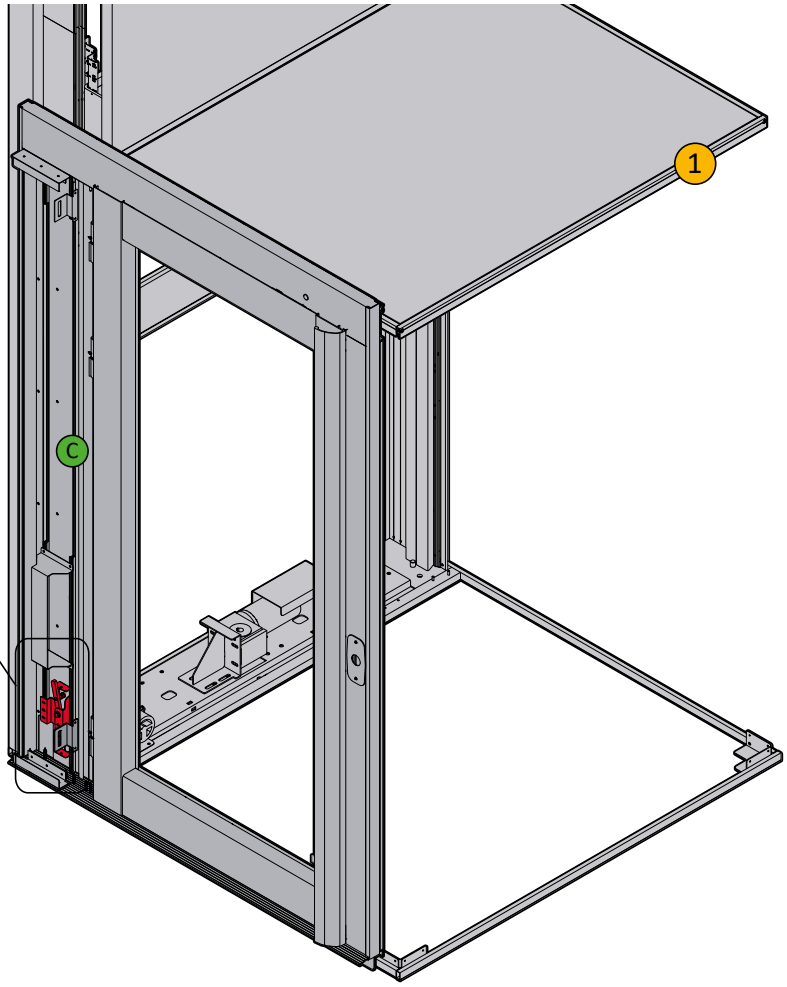
2. Fill the lubrication tray B of the drive screw as described above, using the recommended oil.

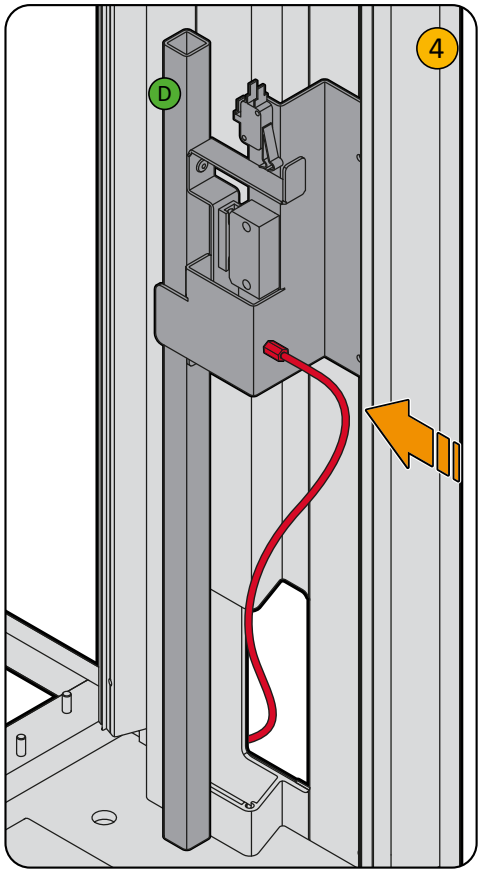


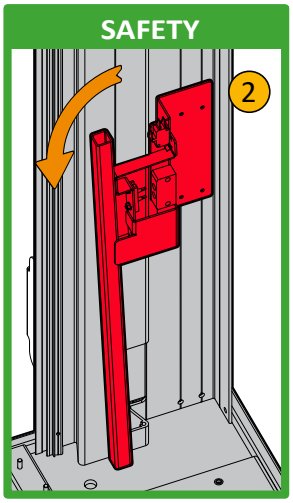
13.18.01 SAFE PIT - CONTROL LEVER CONNECTION

1. Raise the platform so that there is space to work.
2. Open the safety strut.
3. Connect the sheathed cable A.to the control lever B (inside the ground landing door jamb -containing the control panel C).
4. Connect the other end of the sheathed cable A to the safety strut in the pit D.



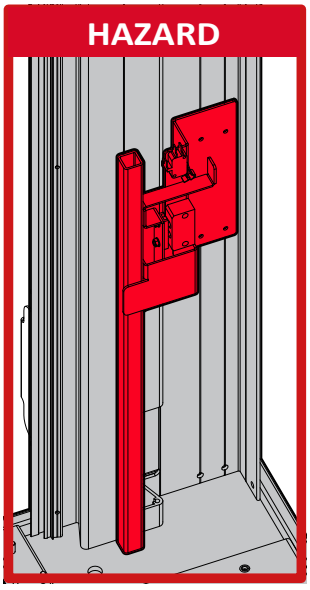
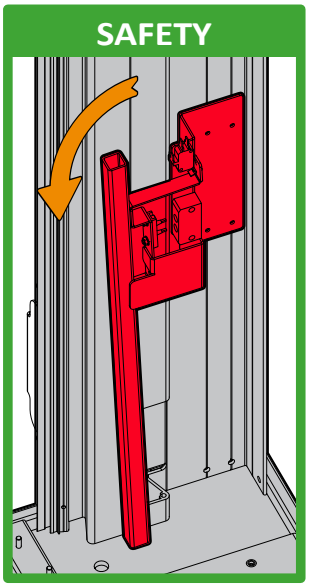




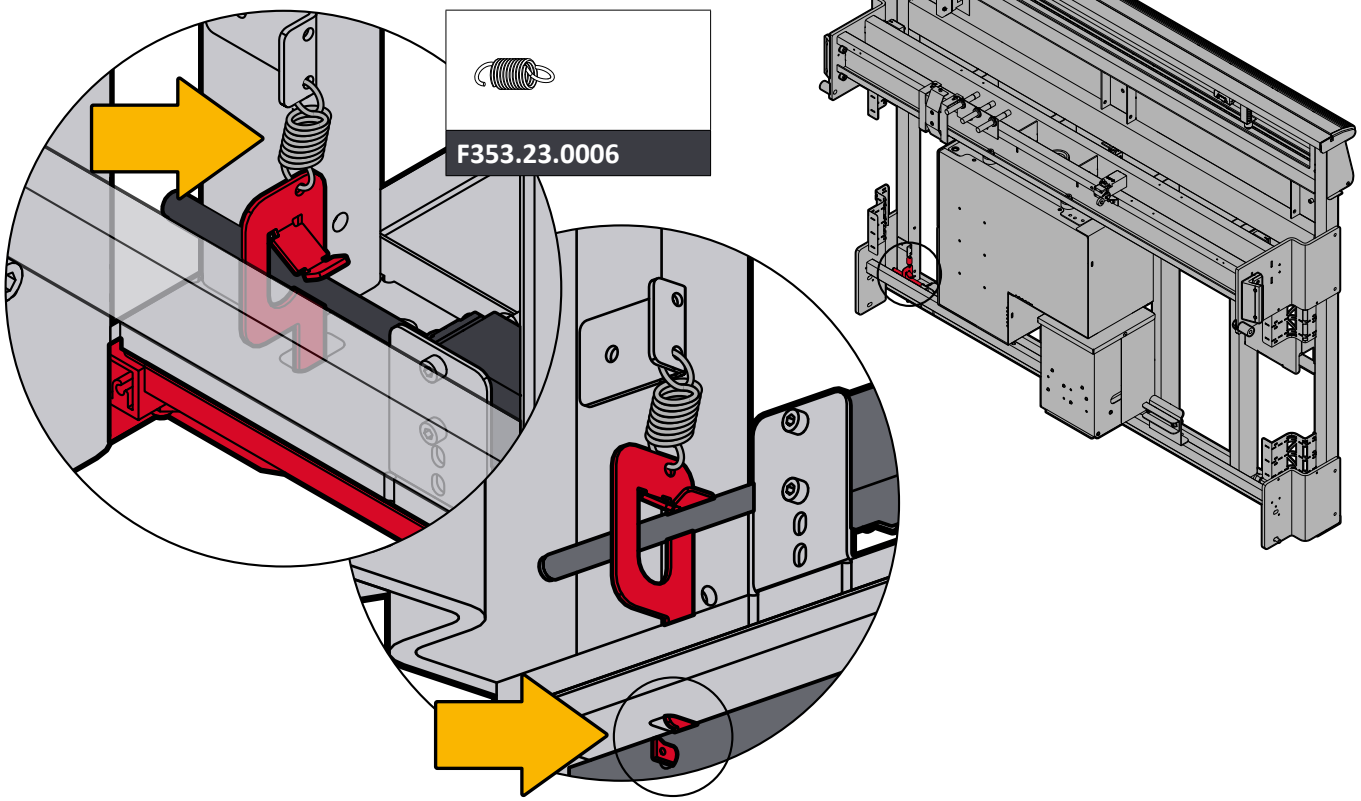
WARNING		
	**CRUSHING HAZARD**	
	Manually open the safe-pit safety device strut from outside the pit (2).	

13.19. Pit safety device (Safe-Pit)

13.19.01 SENSITIVE EDGE CONTACT - CONNECTION

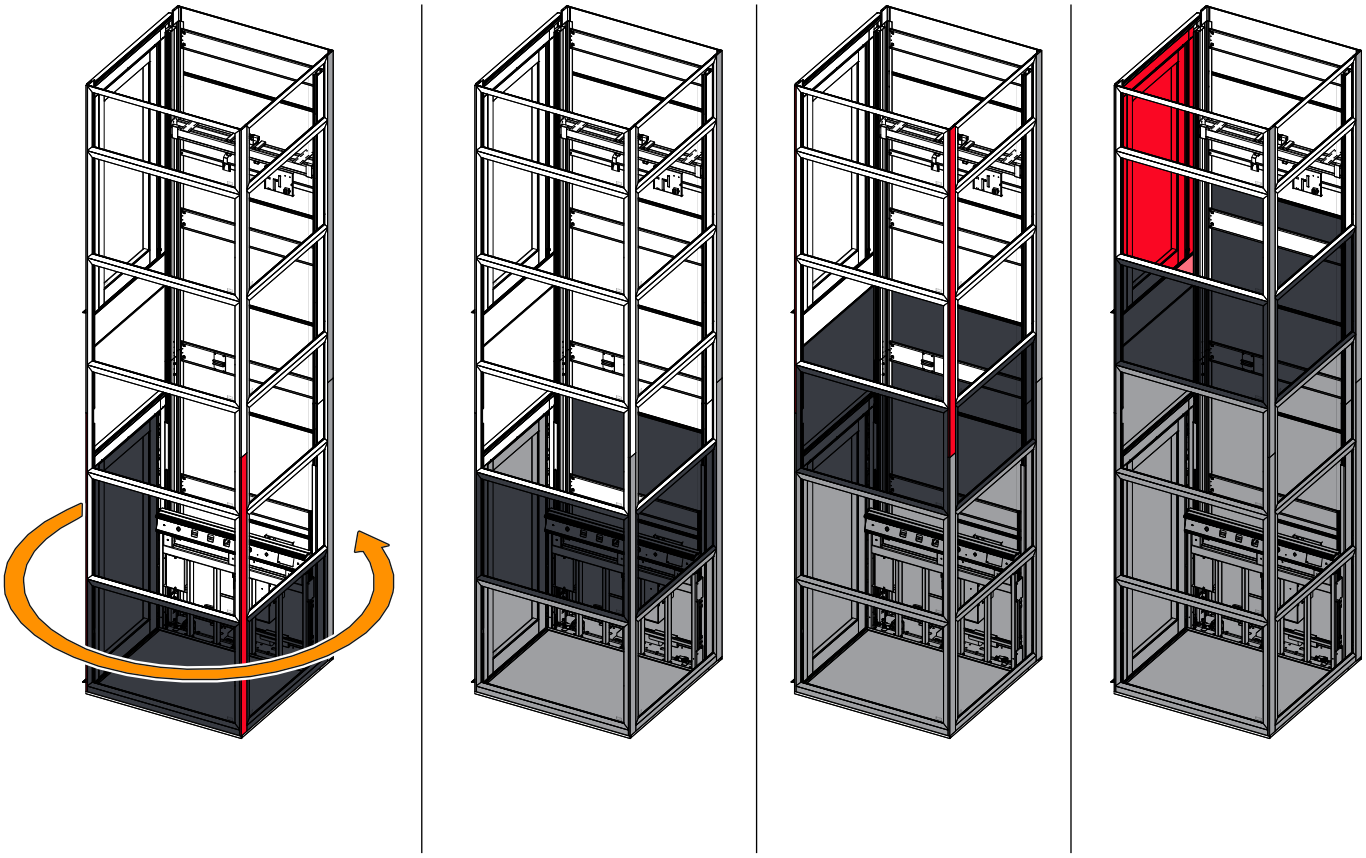
WARNING			
	**CRUSHING HAZARD**		
	Manually open the safe-pit safety device strut from outside the pit.	CLOSED (OFF) SAFE PIT	OPEN (ON) SAFE PIT

- Raise the platform so that there is room to operate and secure the hook to the proximity edge, making sure the sensor is working correctly.



13.20. Infills (doors and panels) - installation

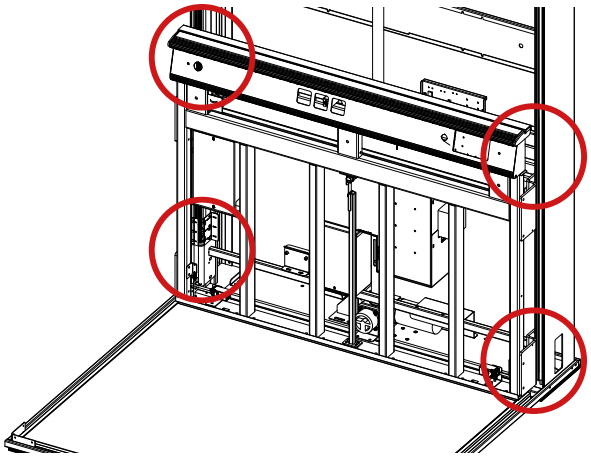
The infills, the landing doors, and the guide rails (opposite to the mechanics), are installed in a circular sequence from the bottom upwards.
The following will describe the individual operations; it is up to the installer to take the correct reference for the installation of the components.

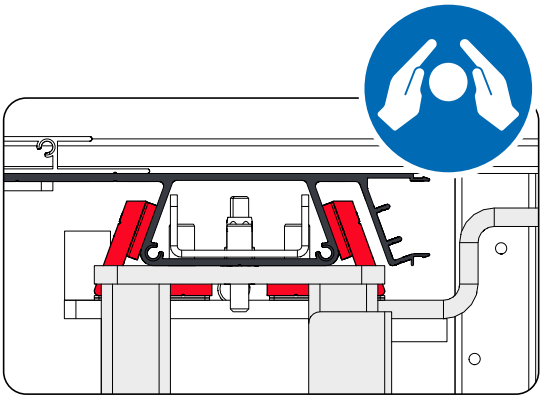


IMPORTANT!

RISK OF DAMAGING RAIL-GUIDES.
Machining debris can damage rail-guides and guide shoes and compromise the proper functioning of the machine.

Cover/protect the guide shoes from machining debris that could seriously damage the rail-guides and guide shoes.
CHECK THE CLEANLINESS OF THE RUNNER BLOCKS AT EACH HOLE.

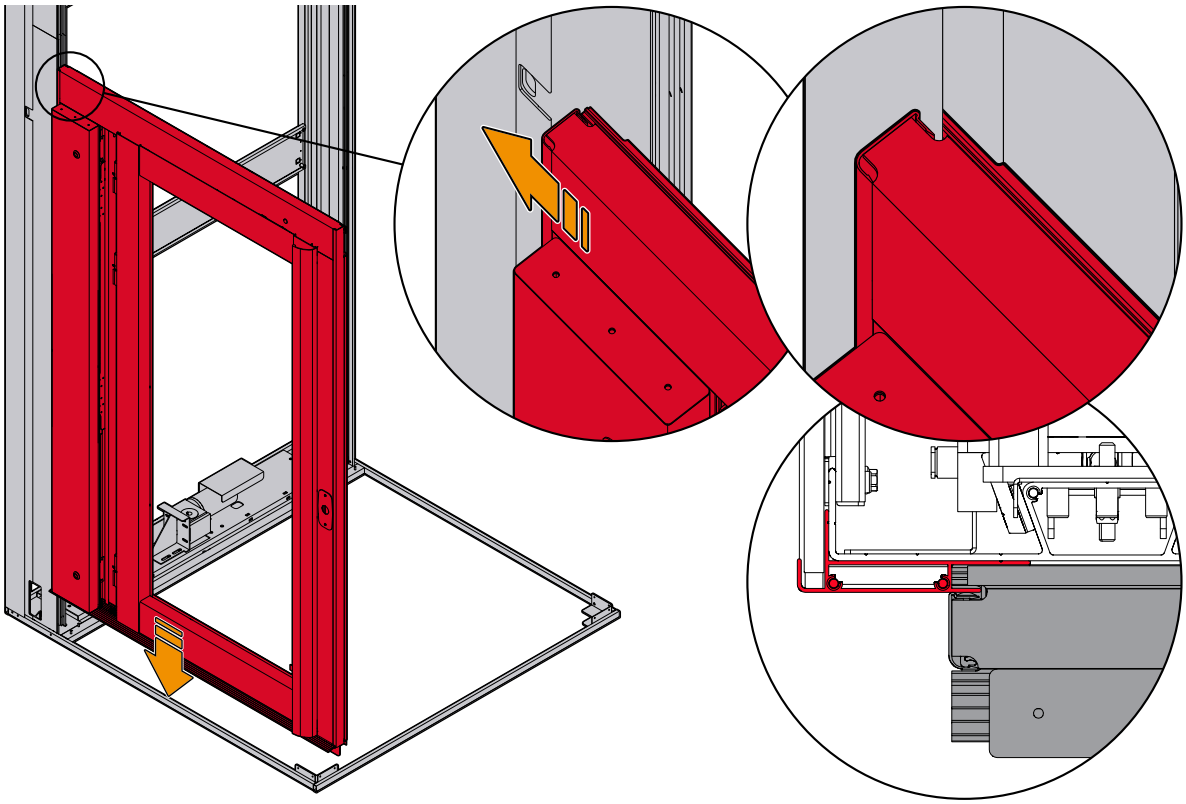




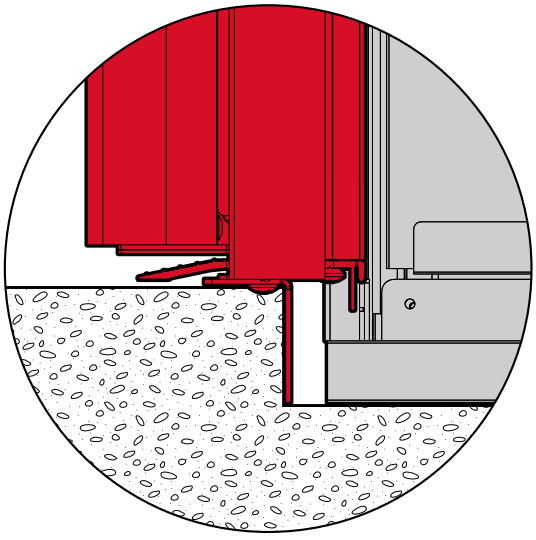
13.20.01 LANDING DOOR

- Position the door, inserting it into the prearranged seat on the rear corner profiles.

Check that the doors are correctly arranged as indicated on the design drawing.

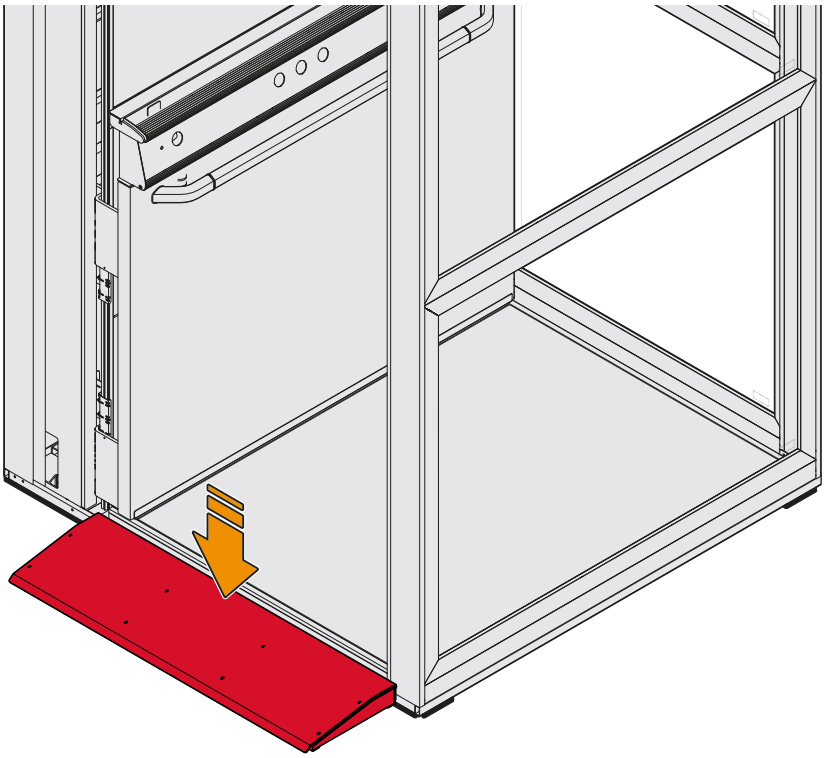


FOR GROUND LANDING DOOR
Check that the ground landing door is resting on the floor level.

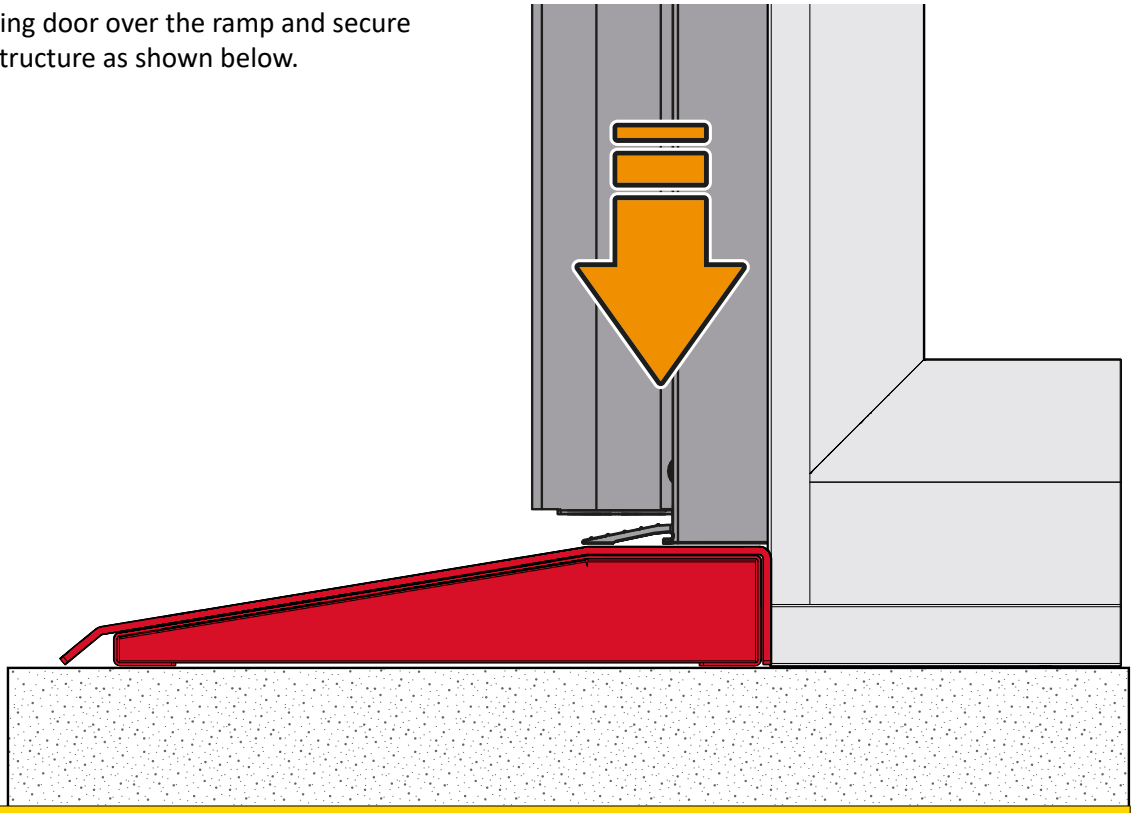


13.20.02 LANDING DOOR - INSTALLATION (WITHOUT PIT)

- Position the ramp against the pit jig at the opening where the door is to be installed.



- Position the landing door over the ramp and secure the door to the structure as shown below.

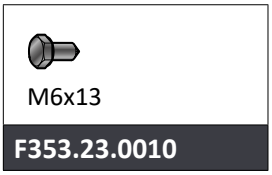


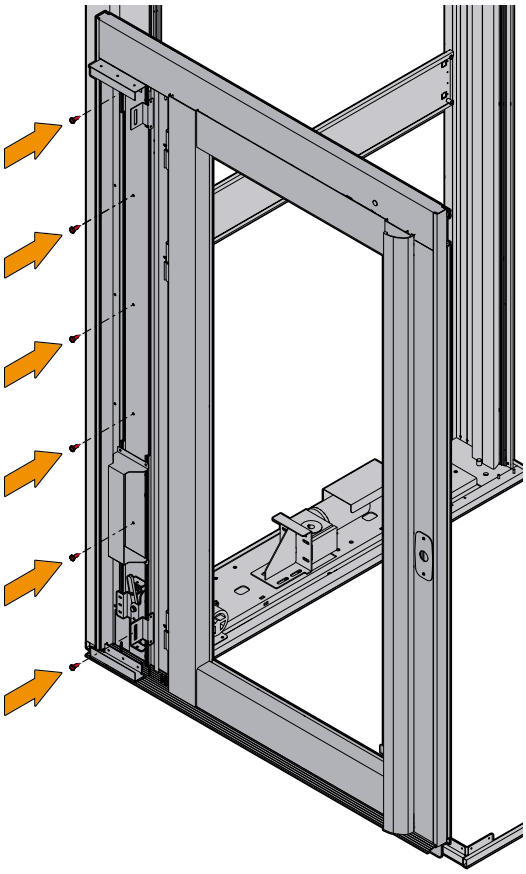
IMPORTANT!

In the absence of a pit, an access ramp (B) is installed, which must be levelled correctly so that it is flush with the jig and prevents subsequent platform support problems.
§ 10.02 Jig - installation in the absence of a pit

13.20.03 LANDING DOOR - FIXING

- Drill the guide rails at a position corresponding to the holes in the door and then secure the door using the screws provided.





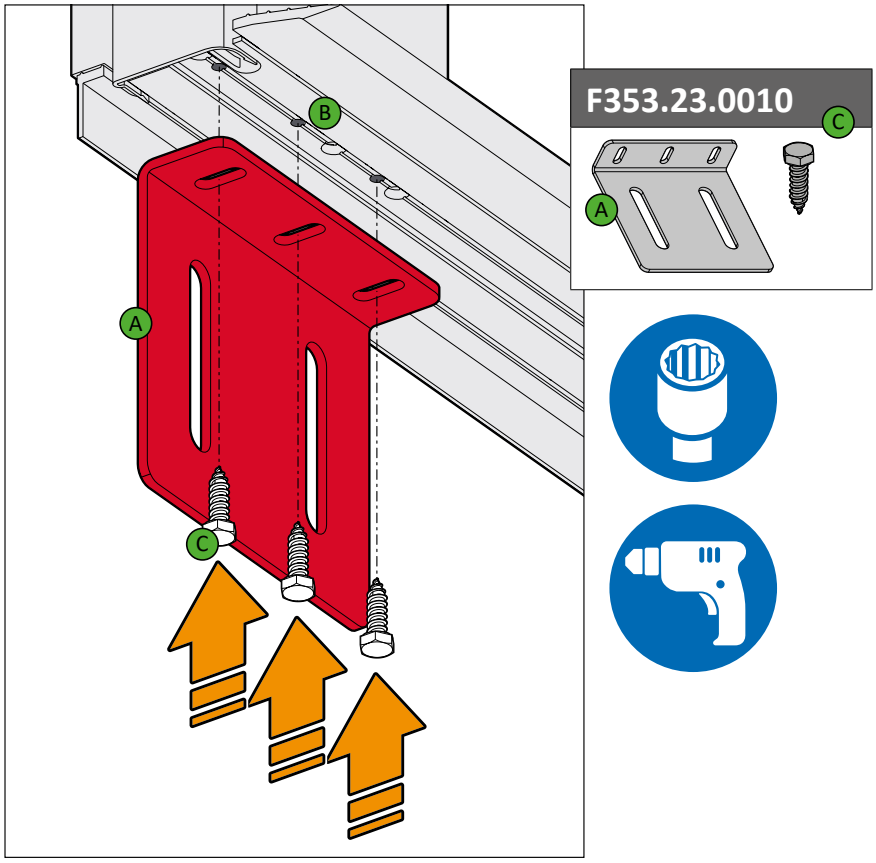
- Secure the other side of the door as indicated in § 10.14.01.

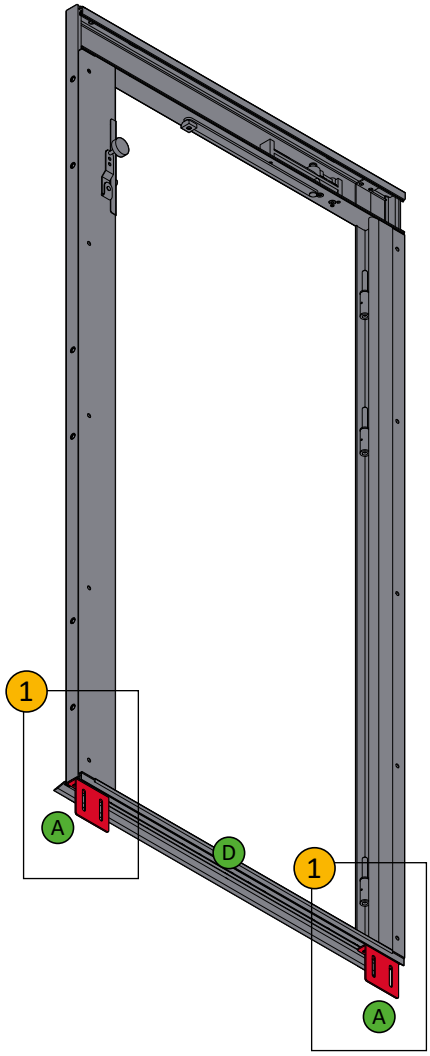
DOOR STOP ADJUSTMENT.
To adjust the door stop, please refer to Chapter 17.01 'Landing Door - Adjustments'.

13.20.04 LANDING DOOR - ANCHORAGE TO THE SLAB WITH BRACKETS

BRACKETS PRE-ASSEMBLY UNDER THE DOOR FRAME

1 Attach the brackets A to the underside of the door frame D , at the prepared holes B, using the self-tapping screws provided in the kit C.

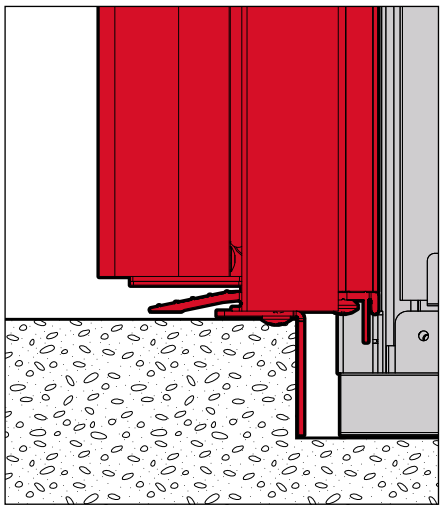


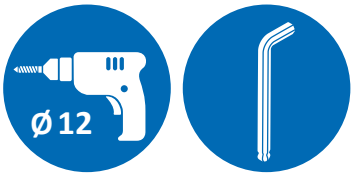


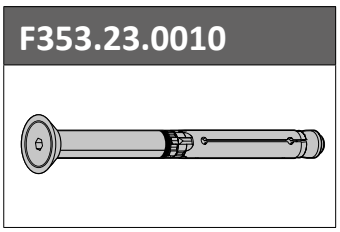
ANCHORAGE TO THE SLAB

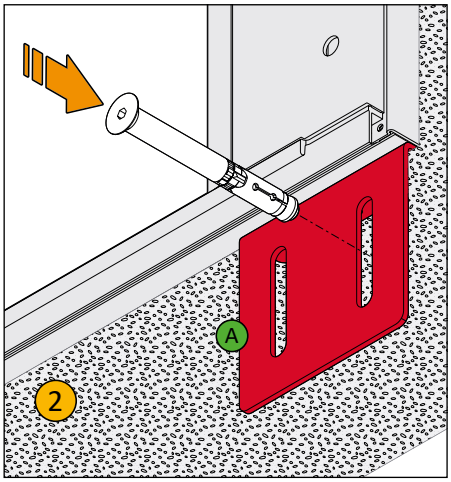
2 Drill the slab in the slots of the brackets A and anchor the door D to the slab with the expansion dowels.

CORRECT POSITIONING ON THE GROUND
Check that the door is correctly supported on the floor.





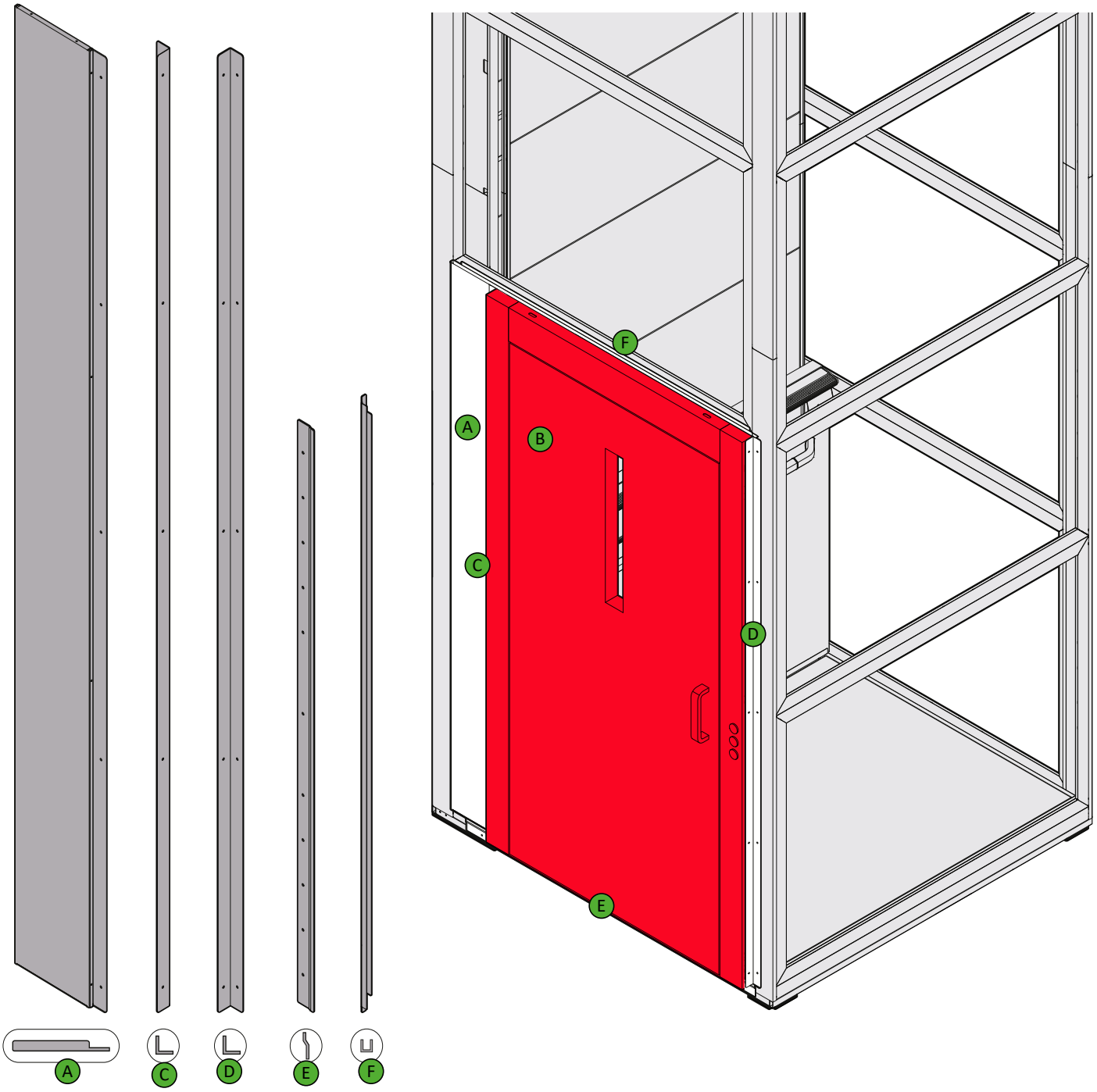




13.21. Landing door "IRON" - installation

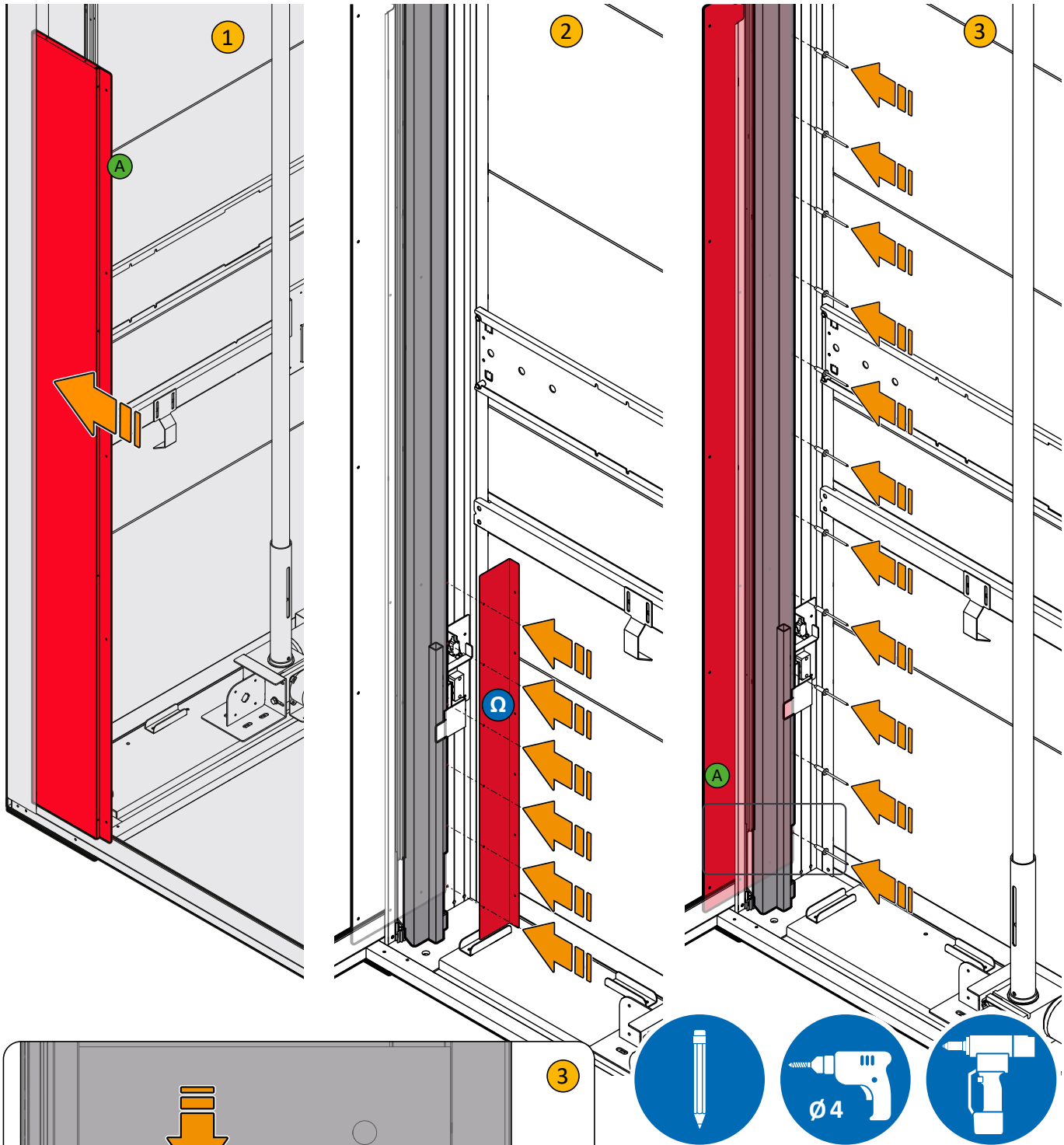
13.21.01 LANDING DOOR "IRON" - COMPONENT RECOGNITION AND POSITIONING

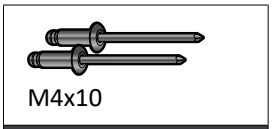
A INFILL (MECHANICAL SIDE)
B IRON DOOR
C L-SHAPED PROFILE (MECHANICAL SIDE)
D L-SHAPED PROFILE (OPPOSITE SIDE)
E LOWER PROFILE (NOT PRESENT AT P0)
F UPPER PROFILE



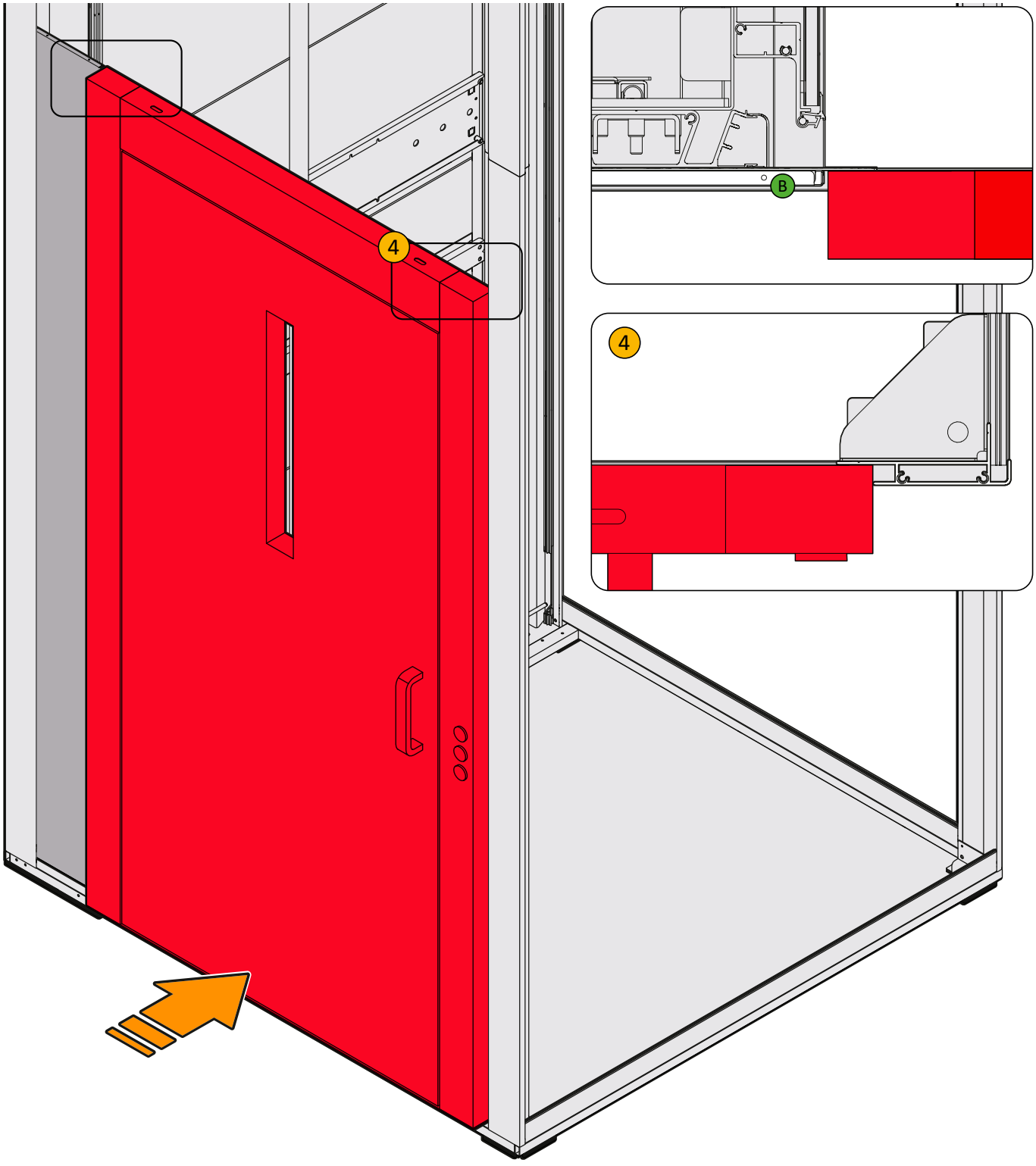
13.21.02 LANDING DOOR "IRON" - ASSEMBLY

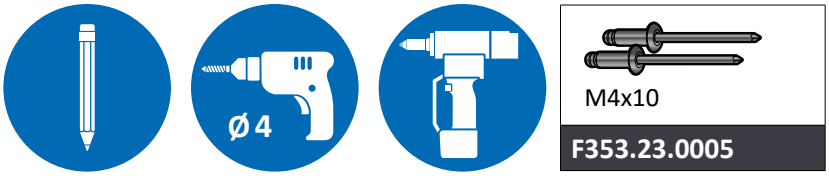
1. Insert the “MECHANICAL SIDE INFILL” (A) into the structure profile..
2. Using the template provided (Ω),), drill the holes in the structure profile.
3. Fasten the infill (A) (from the rail side towards the outer wall of the mechanics) using the rivets provided.



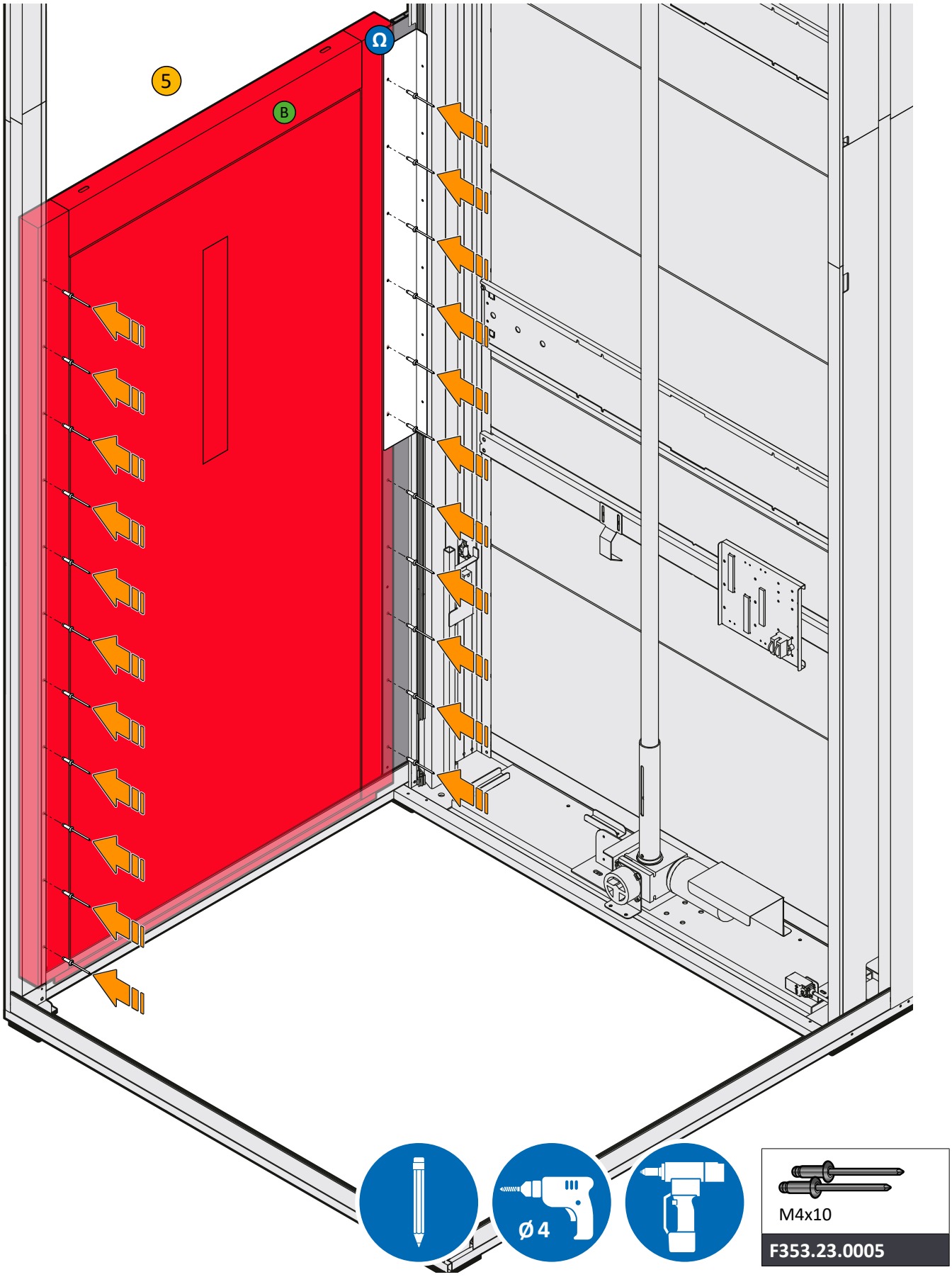


4 Position the “IRON” door in rebate on the profile and the infill B.

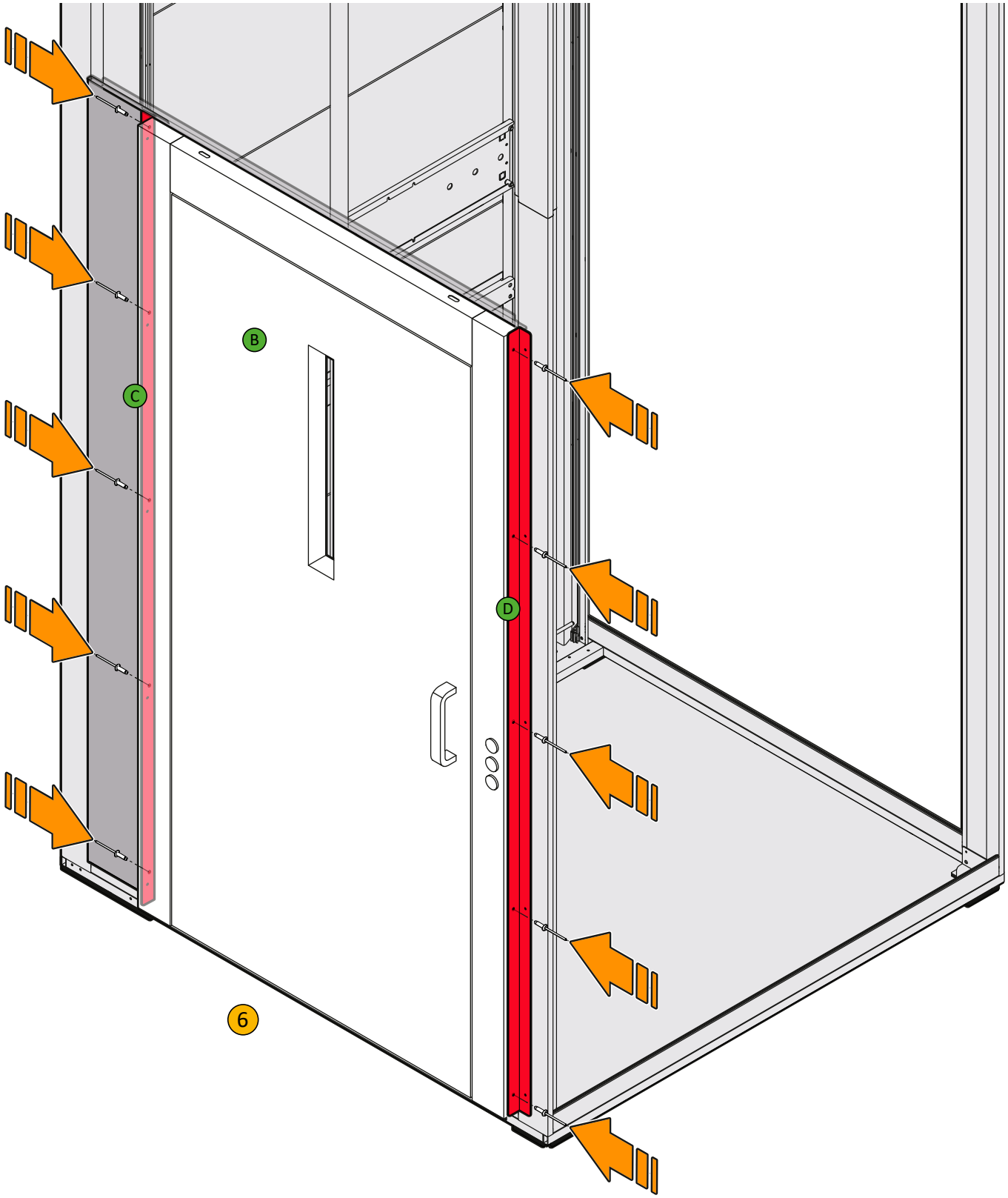


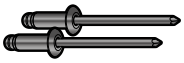


5 Using the template Ω, drill the holes in the infill and structure profile and fix the “IRON” door B with the rivets provided.



6 Place the “L” profiles C and D on the sides of the IRON door and fasten them using the rivets provided.



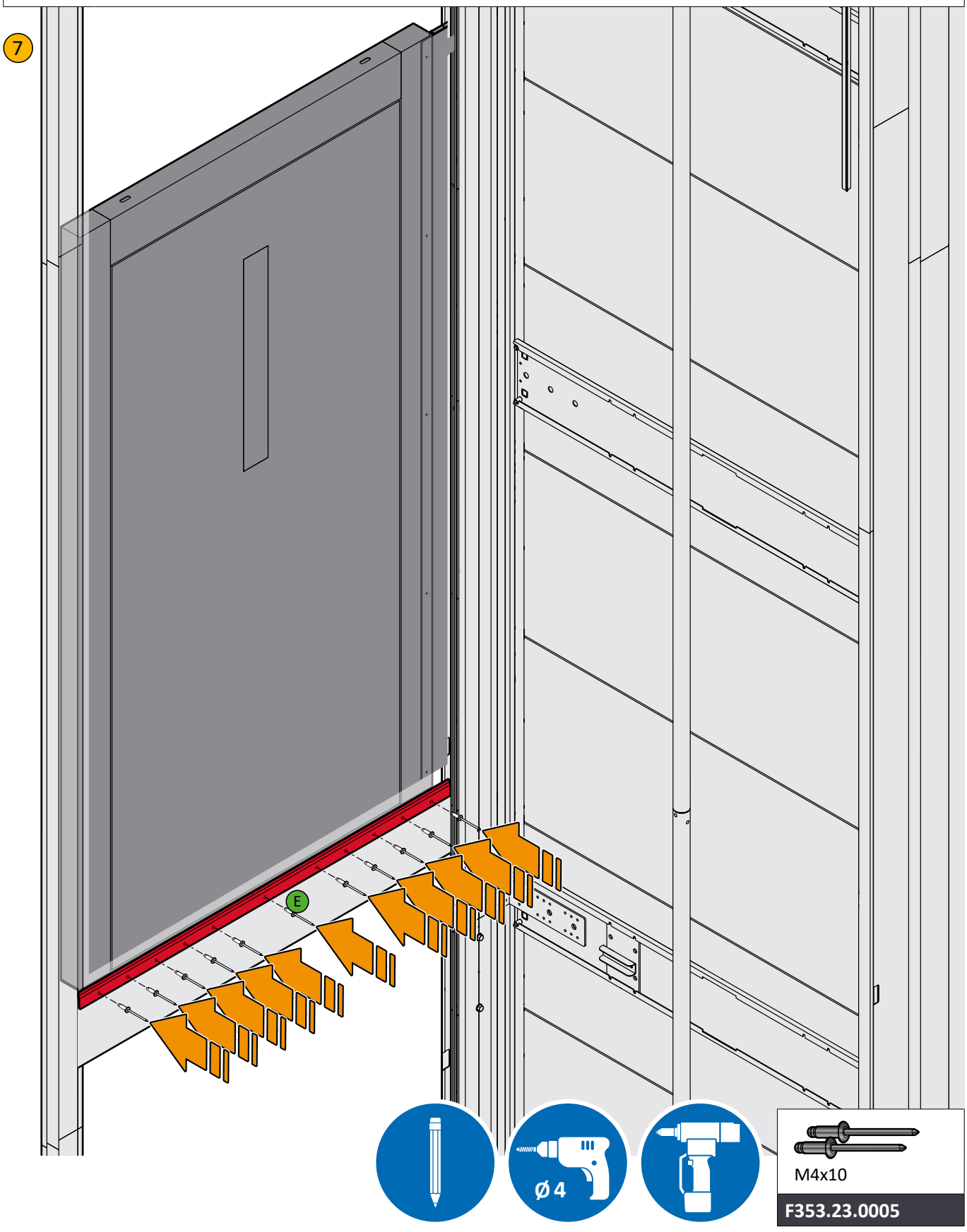


M4x10

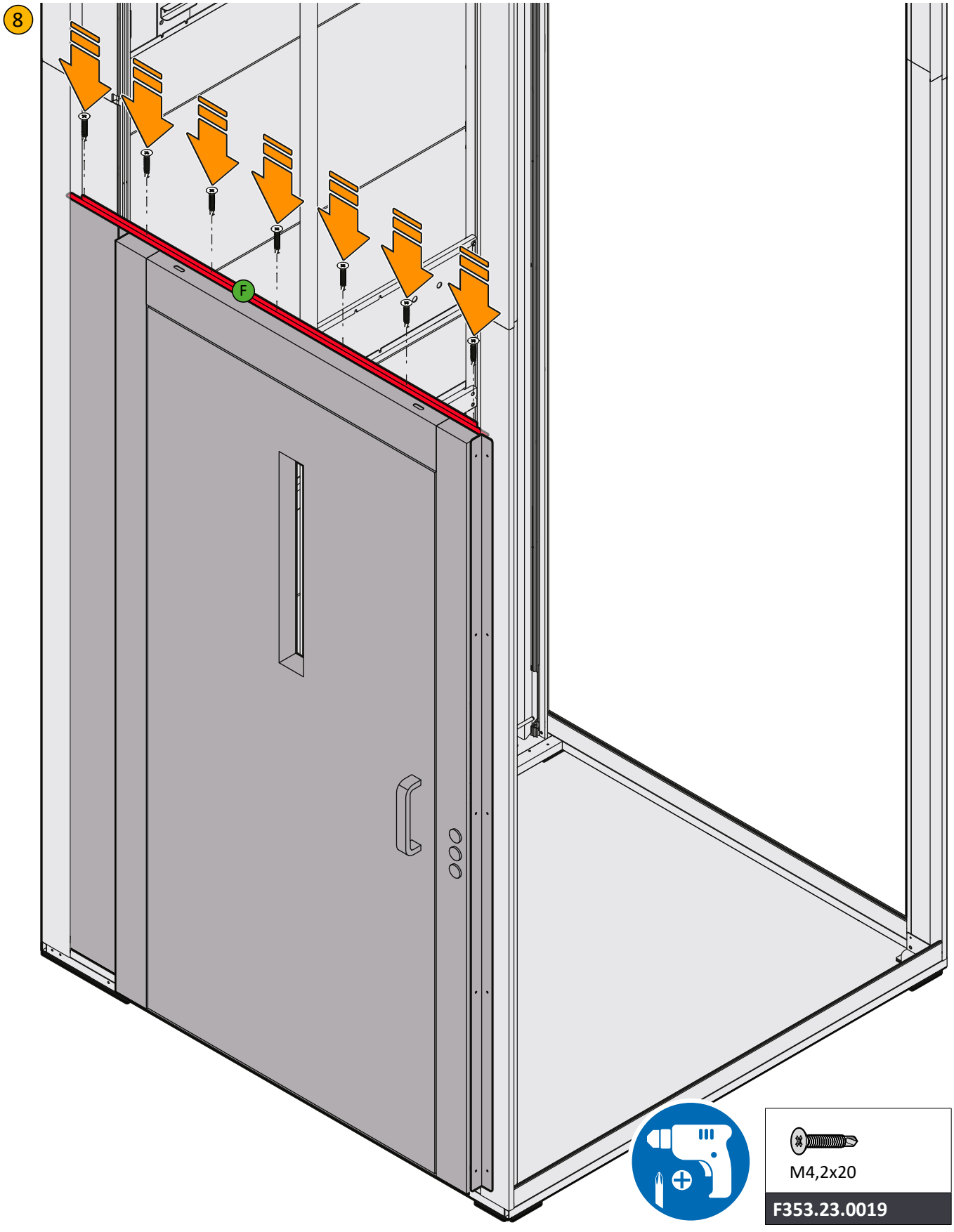
F353.23.0005

7 Place the lower profile E under the door, drill and fasten with the supplied rivets from the inner side.

LOWER FIXING PROFILE
The lower profile is NOT present at the zero plane (P0)

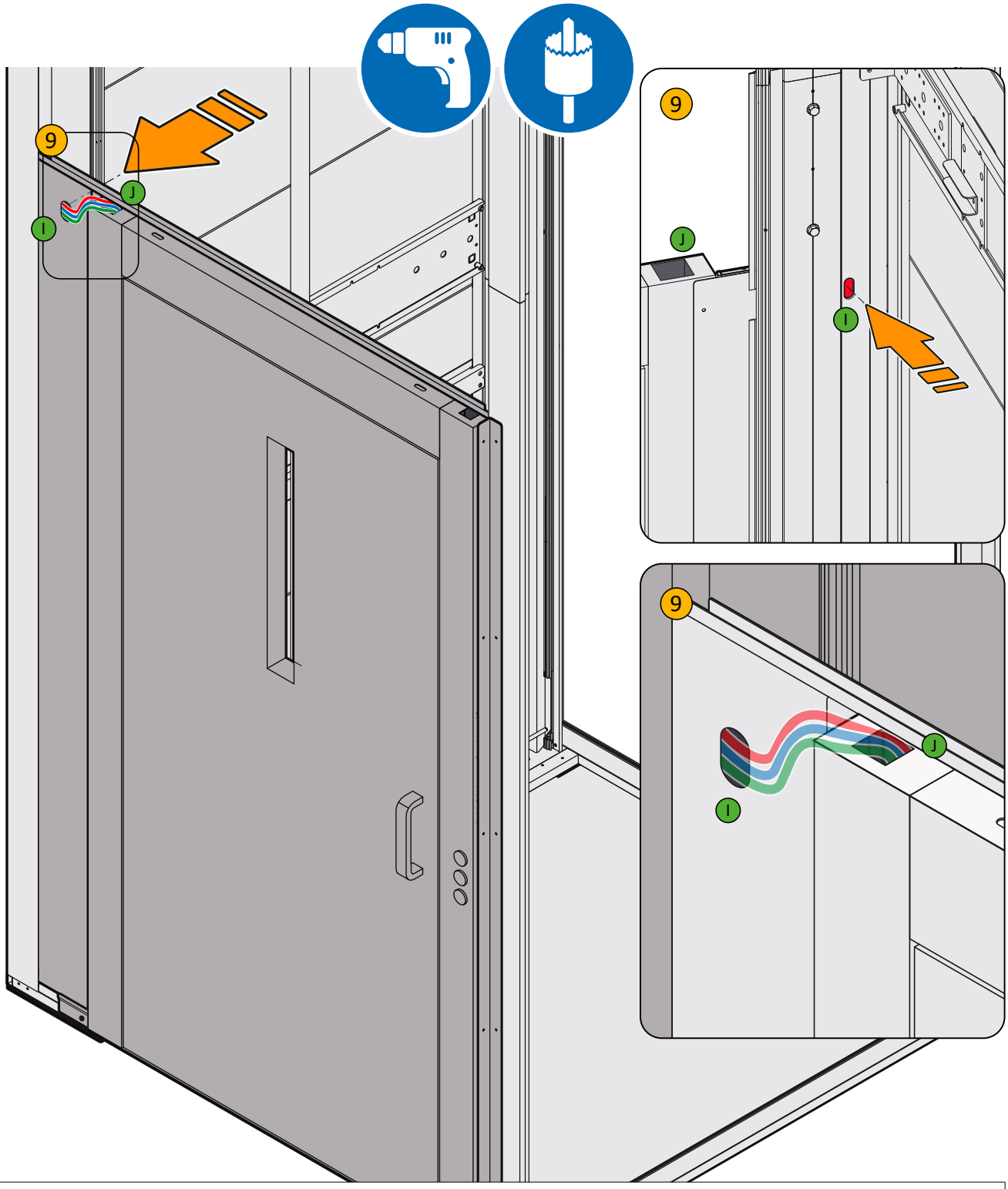


8 Place the upper profile F on top of the “IRON” door, taking care to fit it into the structure profile slots and fasten with the self-drilling screws provided..



13.21.03 LANDING DOOR "IRON" - CABLE ROUTING

(9) Using a hole saw, create a through opening at the slot (I) (inside rails side).
Feed the electrical cables out of the newly created hole (I) and back in through the opening preset on the IRON door frame (J).



DOOR STOP ADJUSTMENT.
To adjust the door stop, please refer to Chapter 17.01 'Landing Door - Adjustments'.

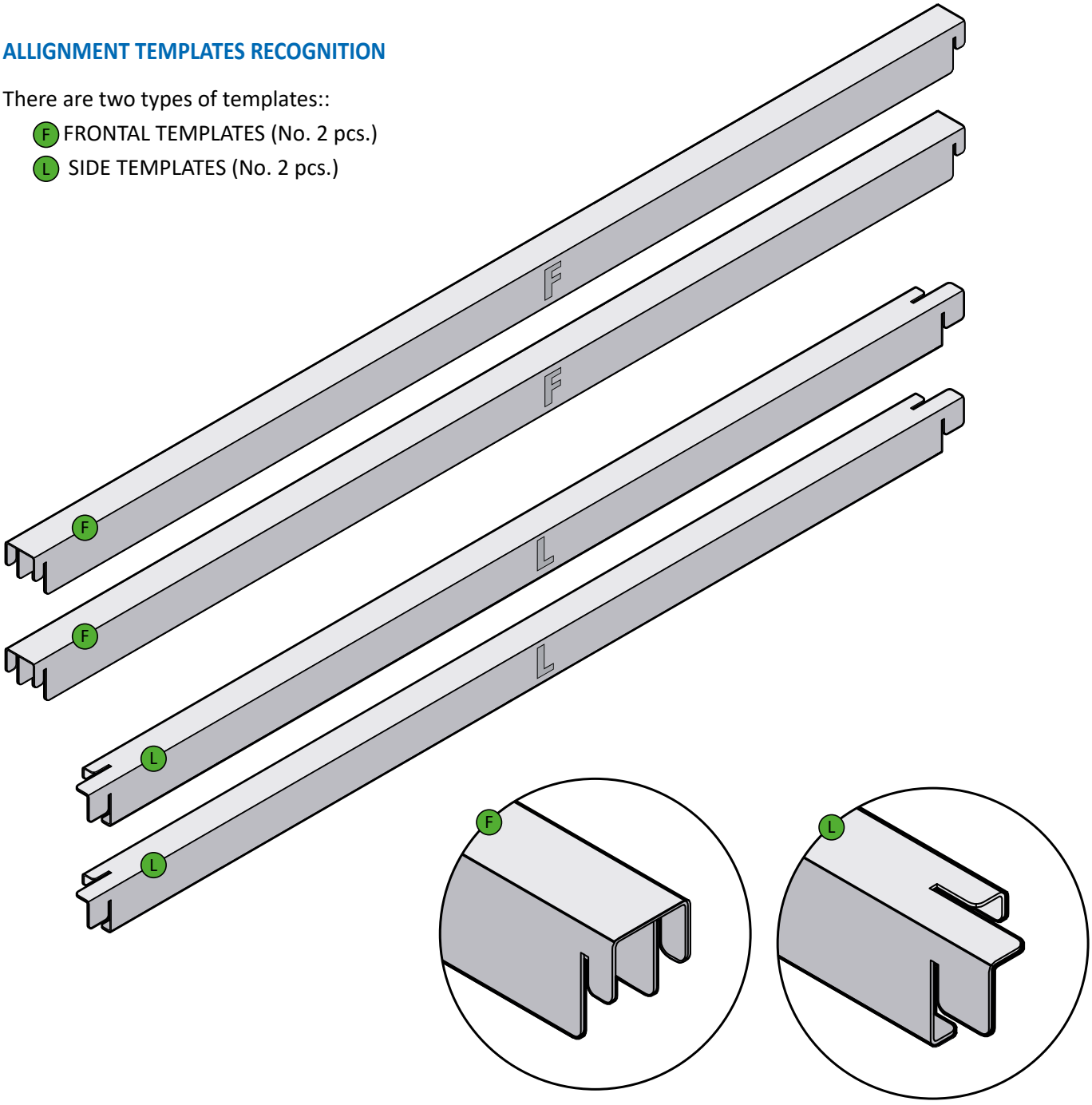
13.21.04 PROFILES AND INFILL PANELS - ALIGNMENT TEMPLATES

In order to achieve proper leveling and alignment of the structure, alignment templates are provided to enable easier assembly.

ALLIGNMENT TEMPLATES RECOGNITION

There are two types of templates::

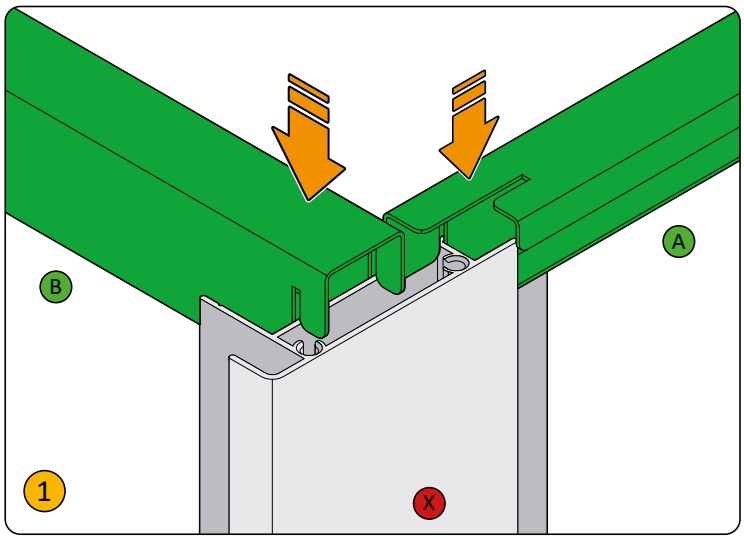
- (F) FRONTAL TEMPLATES (No. 2 pcs.)
- (L) SIDE TEMPLATES (No. 2 pcs.)

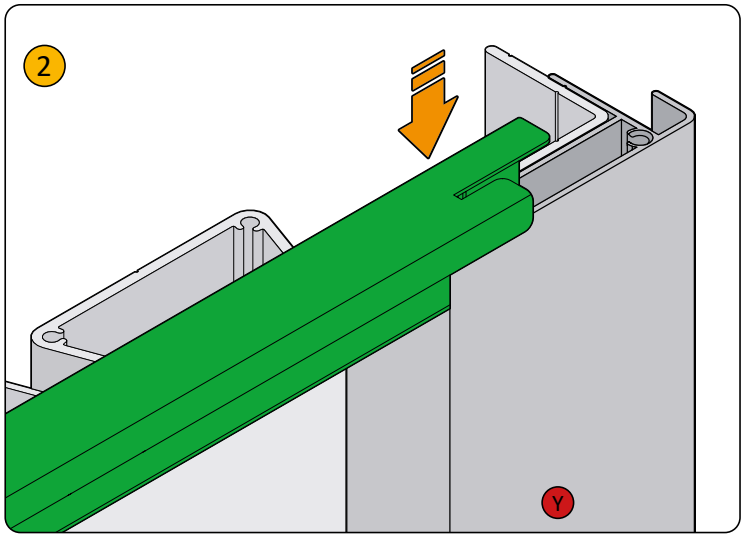


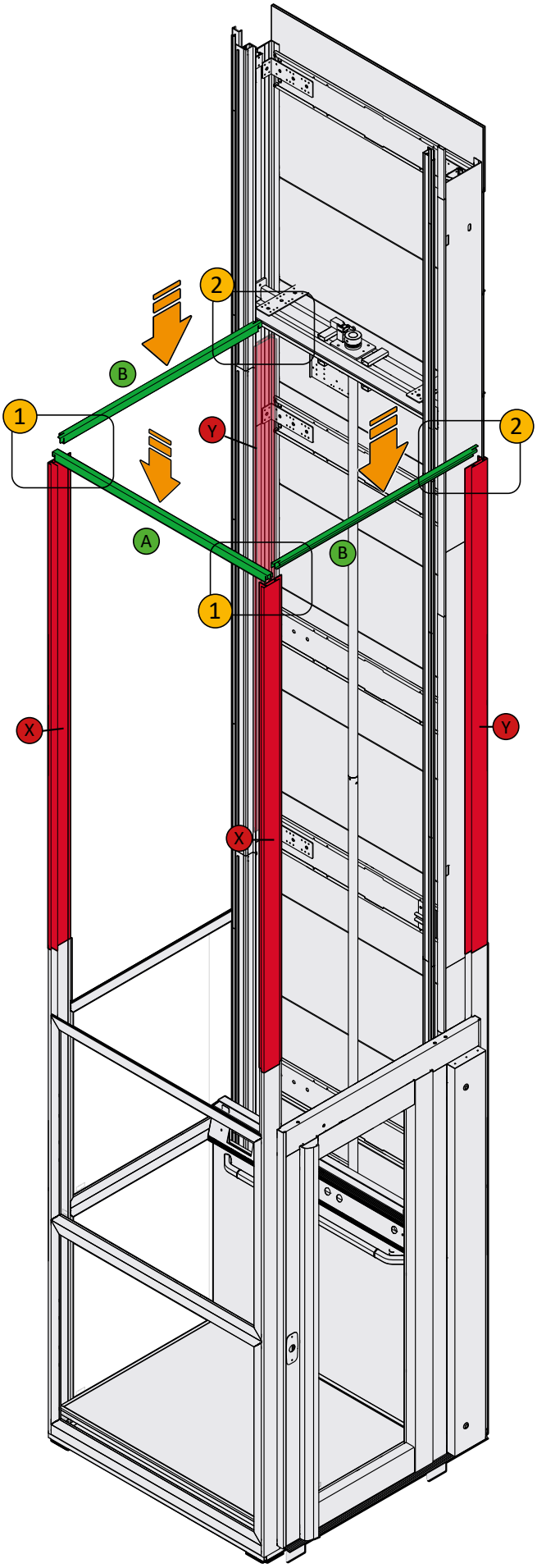
POSITIONING OF ALLIGNMENT TEMPLATES

1 Insert the FRONTAL ALLIGNMENT TEMPLATES F into the front molding-holder profiles X.

2 Insert the SIDE ALLIGNMENT TEMPLATES L into the front X and rear (rail side) Y molding holder profiles







IMPORTANT!

The use of the alignment templates does not preclude a careful check of plumbness.

13.21.05 FRONT CORNER PROFILES

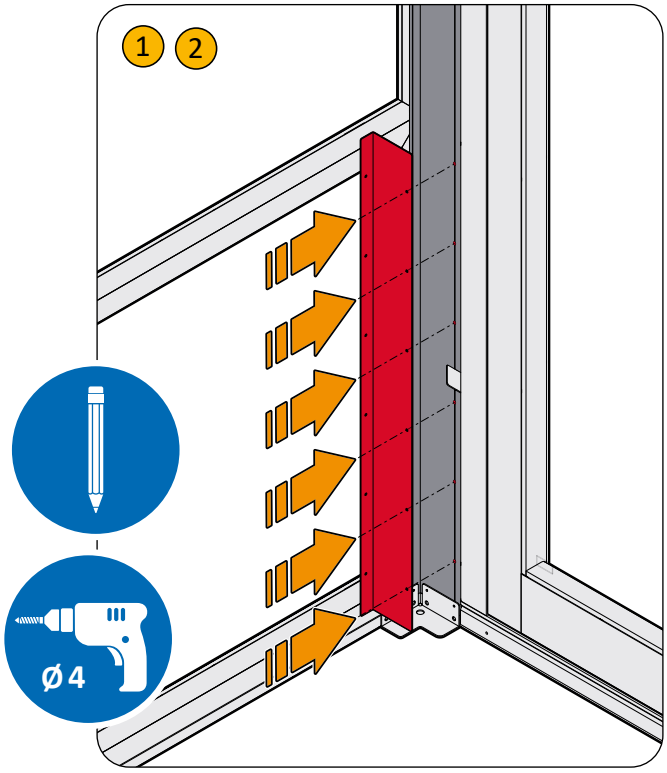
The front corner profiles must be installed after the side component (door or infill).
Follow the circular sequence as indicated at the beginning of the paragraph.

IMPORTANT!

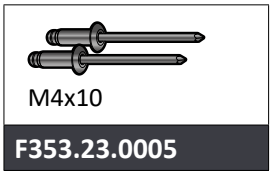
Secure the components as they are positioned.

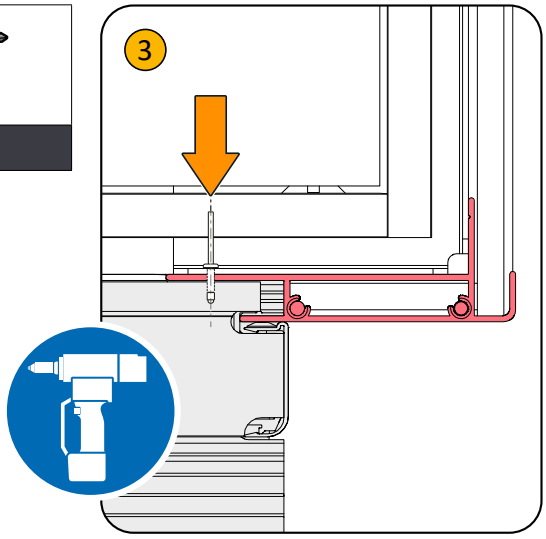
- Position the outer corners, as shown in the diagram, respecting the measurements provided in the design drawing.
- Position the drilling template supplied with the system.

Position the template so that the holes prearranged on the template match the reference line on the corner profile.

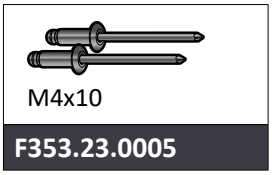


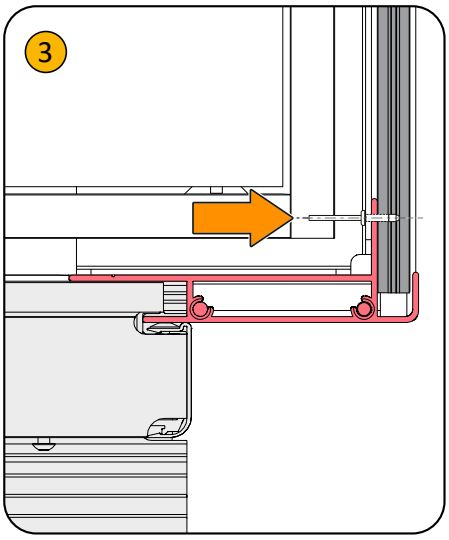
- Mark on the infill (or door) side, and realize the prearranged holes.
- Secure the corner profile with the rivets provided.





- Place the infill on the other side of the corner profile.
- Position the drilling template supplied with the platform (1).
- Mark on the side of the newly positioned infill and realize the prearranged holes (2).
- Secure the corner profile with the rivets provided (3).





Near the guide rail joint, rivet 100 mm above and below the joint.

Proceed from bottom to top.

IMPORTANT!

RISK OF PLATFORM DAMAGE

AFTER ANY MACHINING OPERATIONS THAT PRODUCE DEBRIS, BEFORE MOVING THE PLATFORM, ENSURE THAT THERE IS NO MACHINING RESIDUE (CHIPS AND FILINGS) BETWEEN THE GUIDE SHOES (LOWER AND UPPER) AND RAIL-GUIDES AND BETWEEN THE SCREW AND NUT..

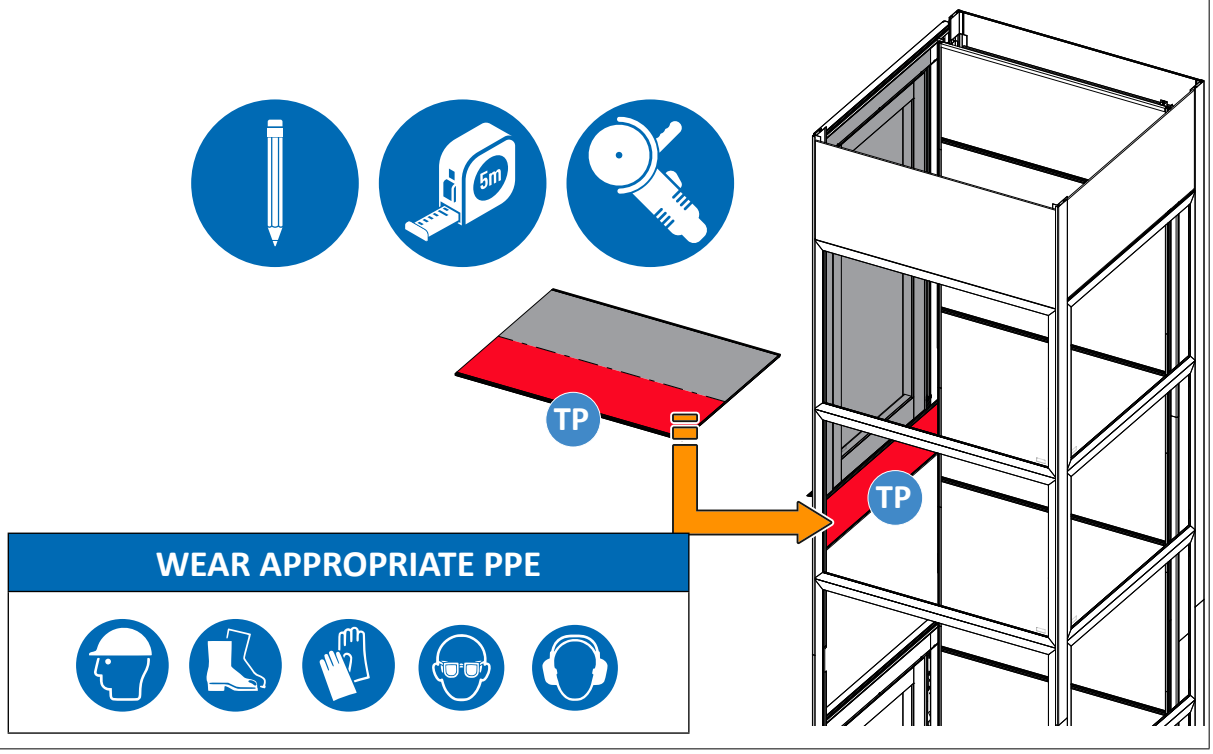
COVER/PROTECT THE SLIDING/MOVING AREAS TO PREVENT DAMAGE TO THE SYSTEM.

13.21.06 INFILL UNDER LANDING DOOR (OTHER THAN GROUND LANDING DOOR)

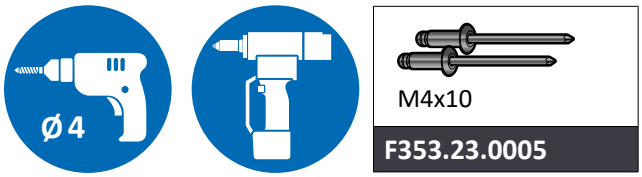
FOR DOORS OTHER THAN GROUND LANDING DOOR
In case of doors other than the ground landing door, install the blanking panel under the door BEFORE installing the floor door.

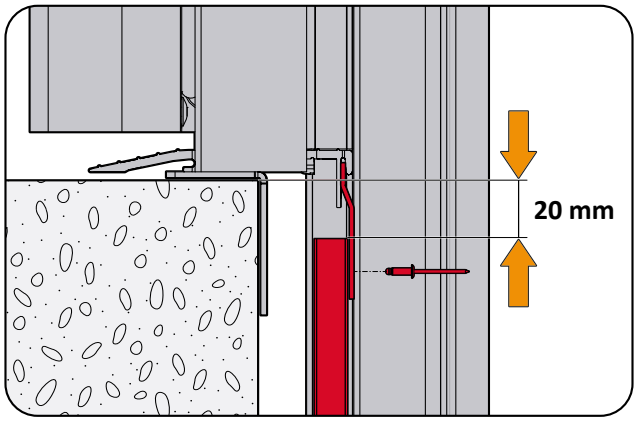
- Take a standard BLANKING infill panel and cut it to size.

The infills UNDER THE DOORS SHOULD BE CUT AT THE INSTALLATION SITE.

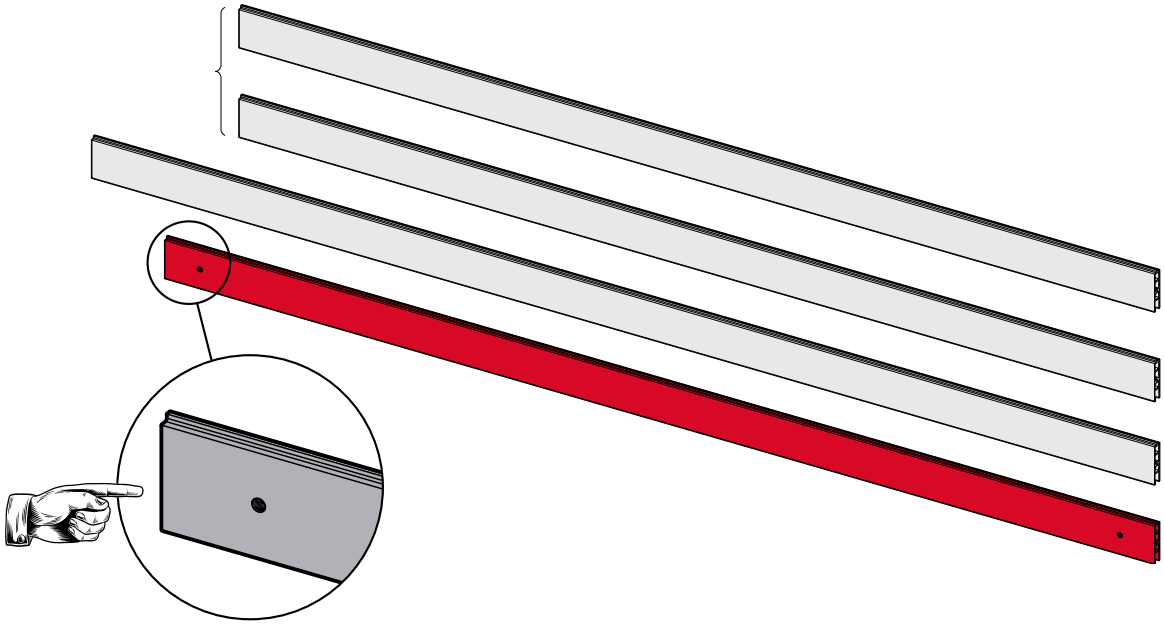


- Using the bar as a template, mark the holes, perform the drilling, and secure the infill panel with the rivets provided.





13.21.07 INFILL - RECOGNITION OF BASE PROFILES

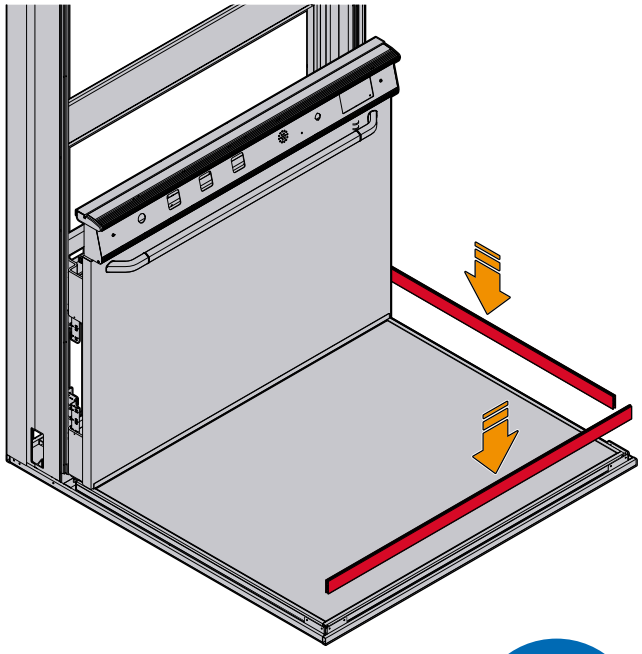


13.21.08 GLASS INFILL INSTALLATION (LATERAL AND BEHIND THE MECHANICS)

IMPORTANT!

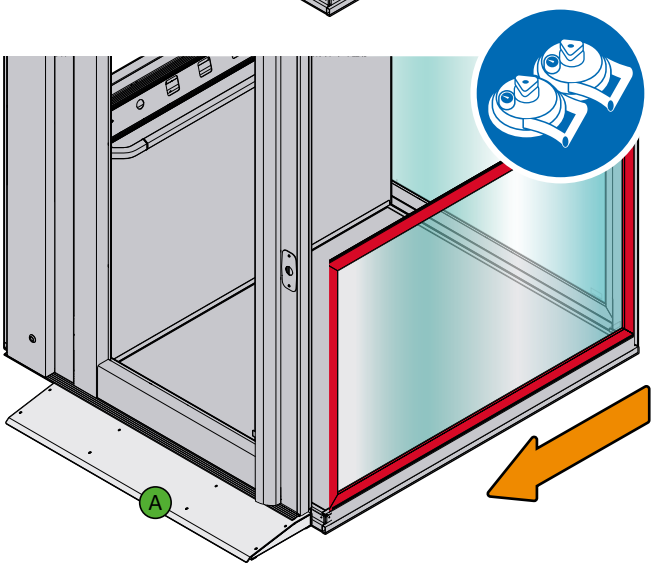
The base profiles must be positioned before starting the installation of the infills.

- Place the base profiles into the specific housings.



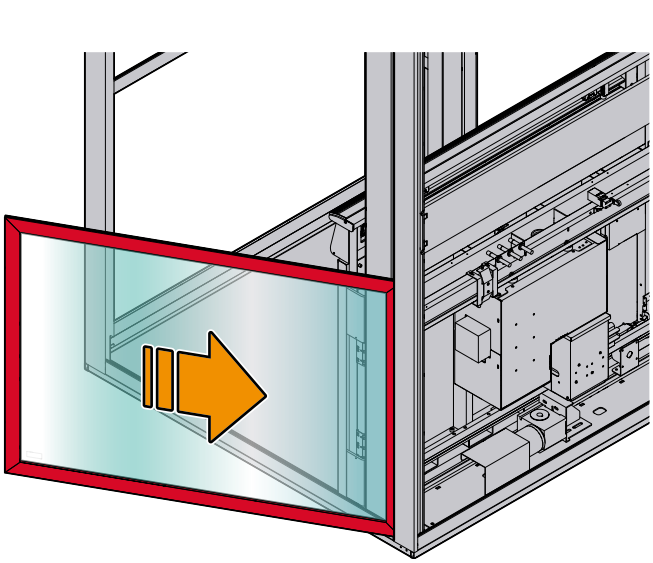
The door side does not require the base profile.

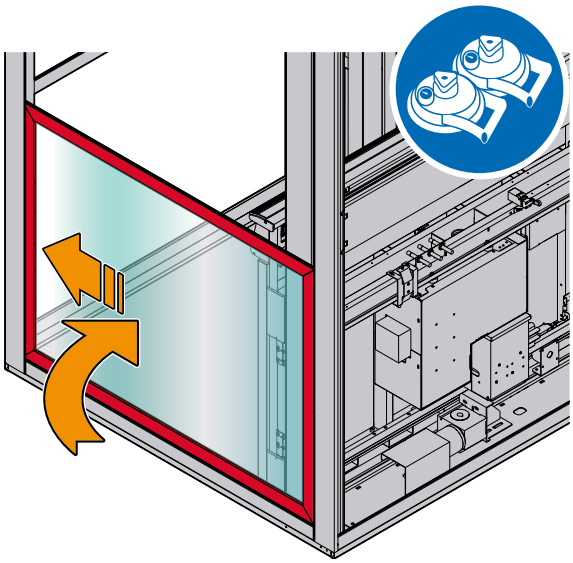
- Insert the infill panel into the specific guide rail housing.



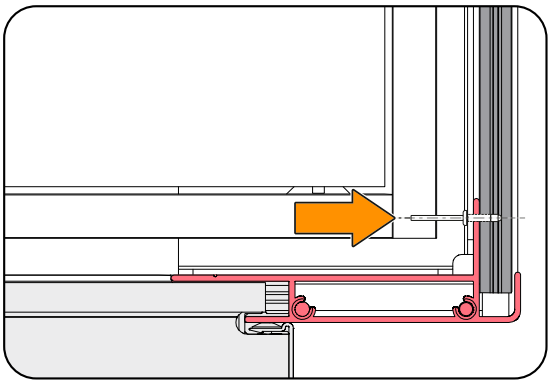
Proceed from bottom to top.

- If both panel containment guide rails are installed, insert the infill as shown below.

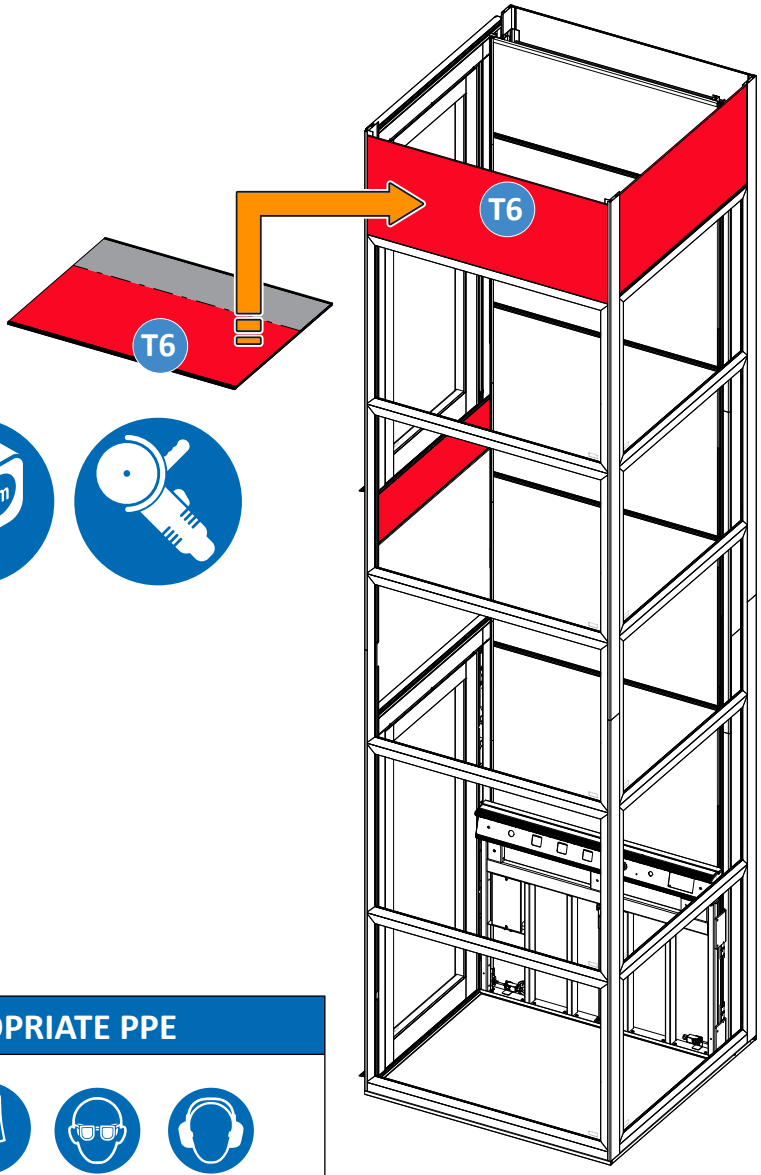




- Secure the infill panel as indicated in paragraph "10.13.01 Front corner profiles".



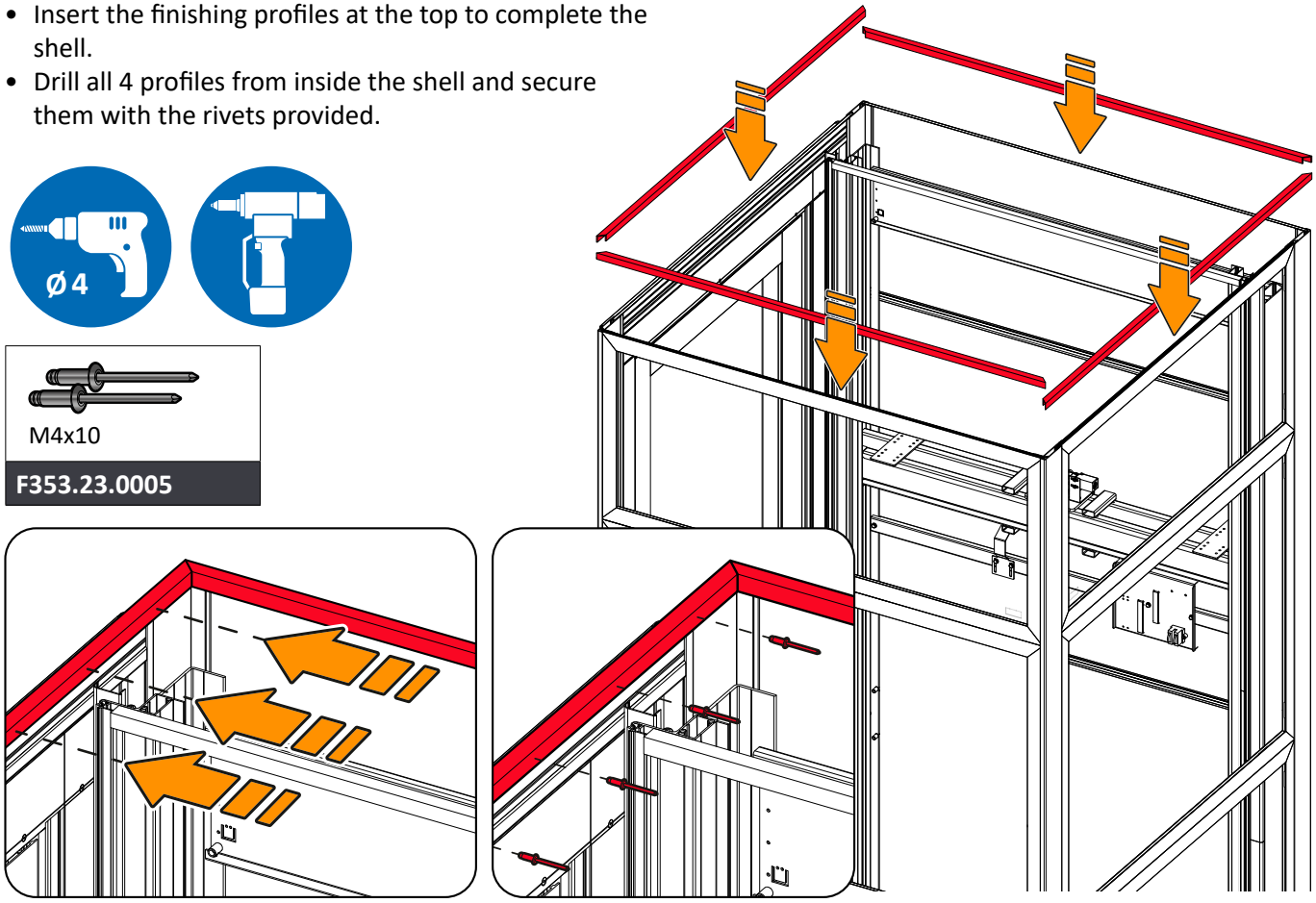
The BLANKING PANELS IN THE HEADROOM SHOULD BE CUT AT THE INSTALLATION SITE.



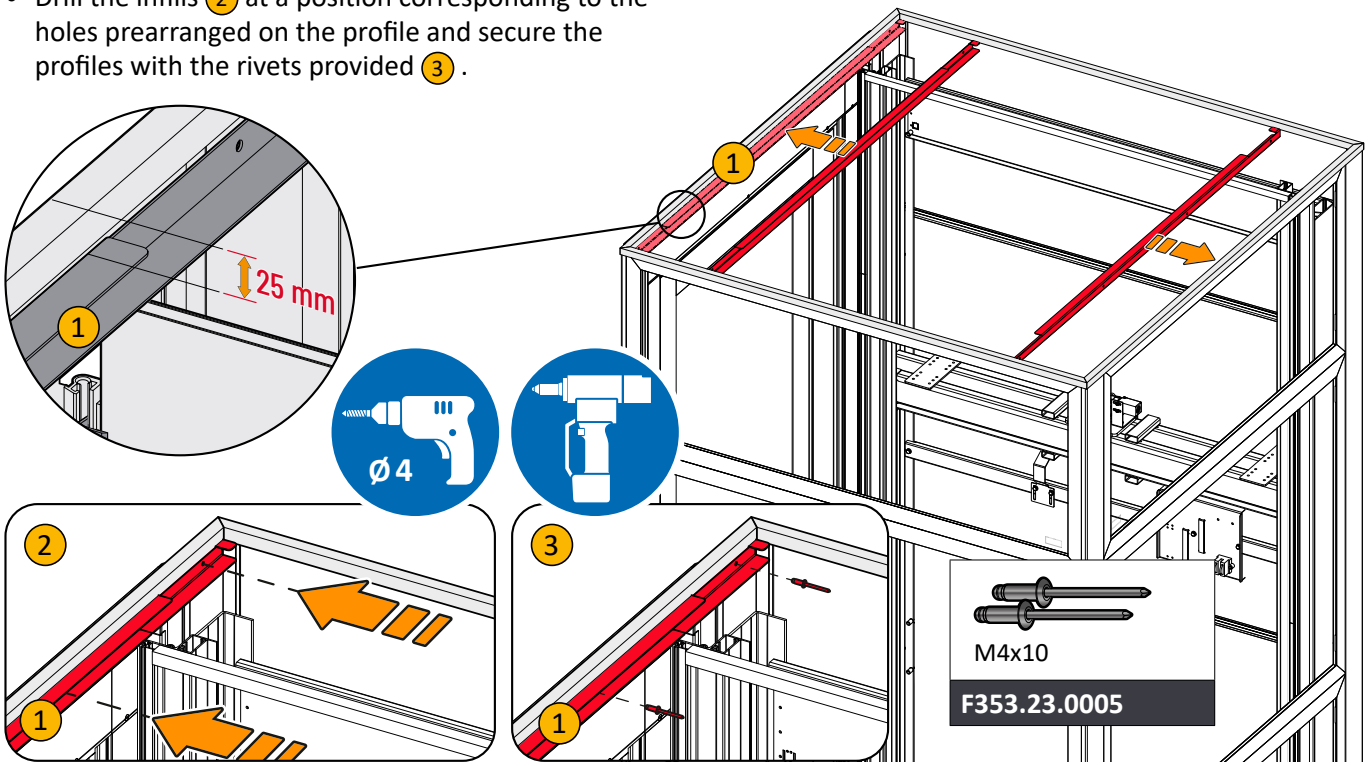
WEAR APPROPRIATE PPE

13.22. Roof

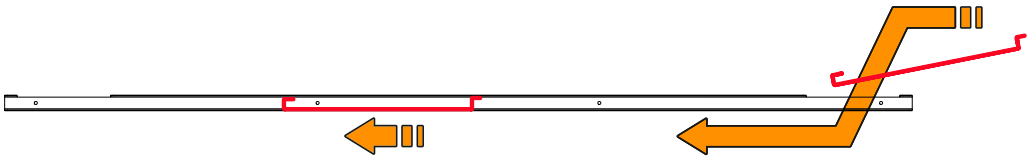
- Insert the finishing profiles at the top to complete the shell.
- Drill all 4 profiles from inside the shell and secure them with the rivets provided.



- Position the roof support profiles (1) on the sides of the mechanics (one on the right and one on the left) 25 mm from the top..
- Drill the infills (2) at a position corresponding to the holes prearranged on the profile and secure the profiles with the rivets provided (3) .

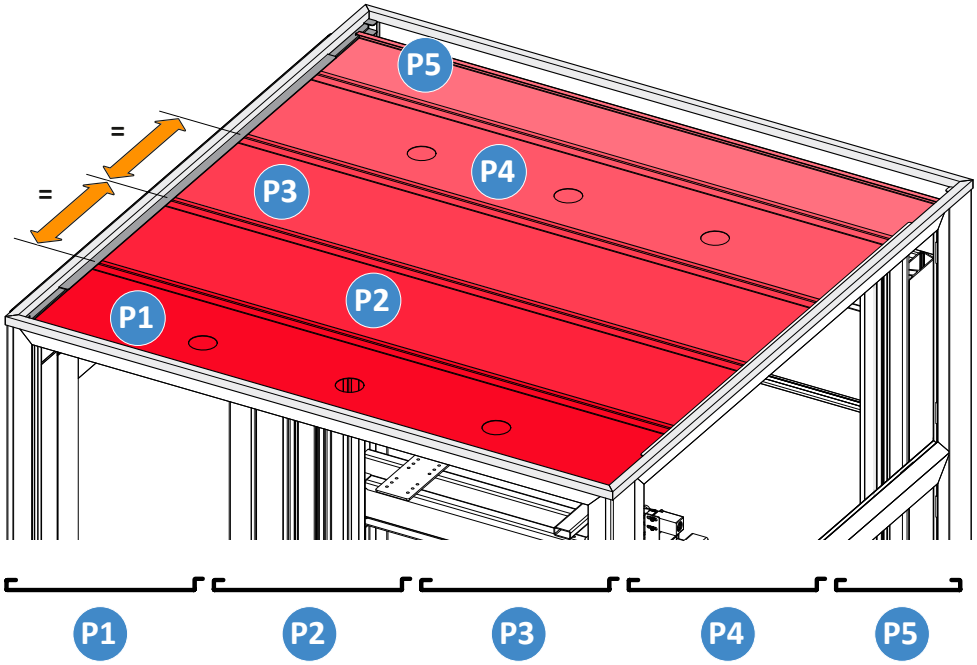


- Insert the covering panels (roof)



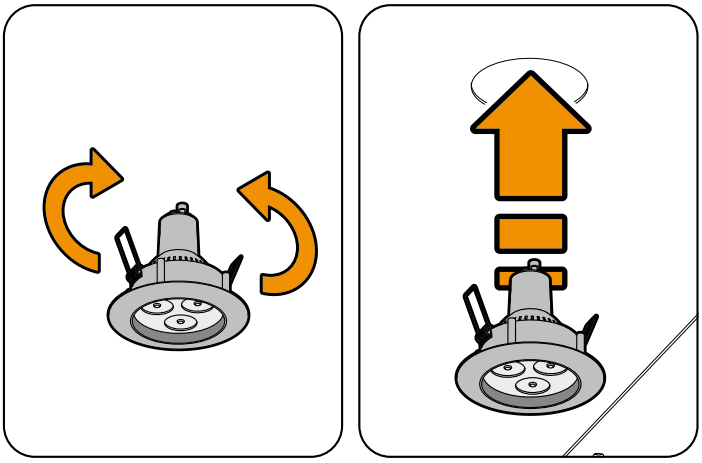
IMPORTANT!

Check the sequence and direction of the panels for correct insertion.



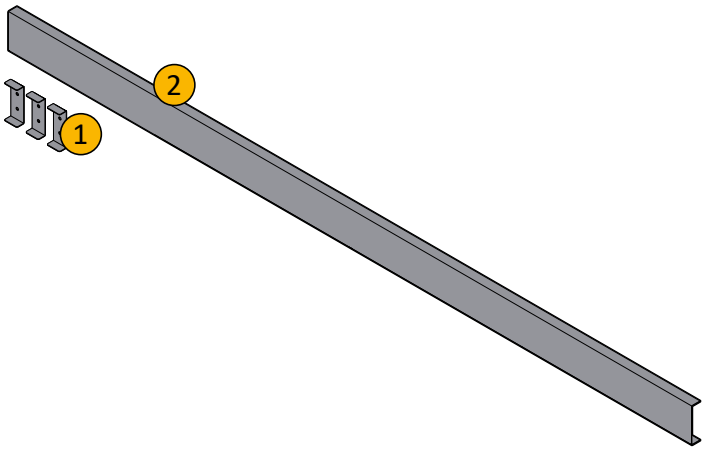
- Open the spotlight retaining springs
- Insert into the hole prearranged in the shell roof

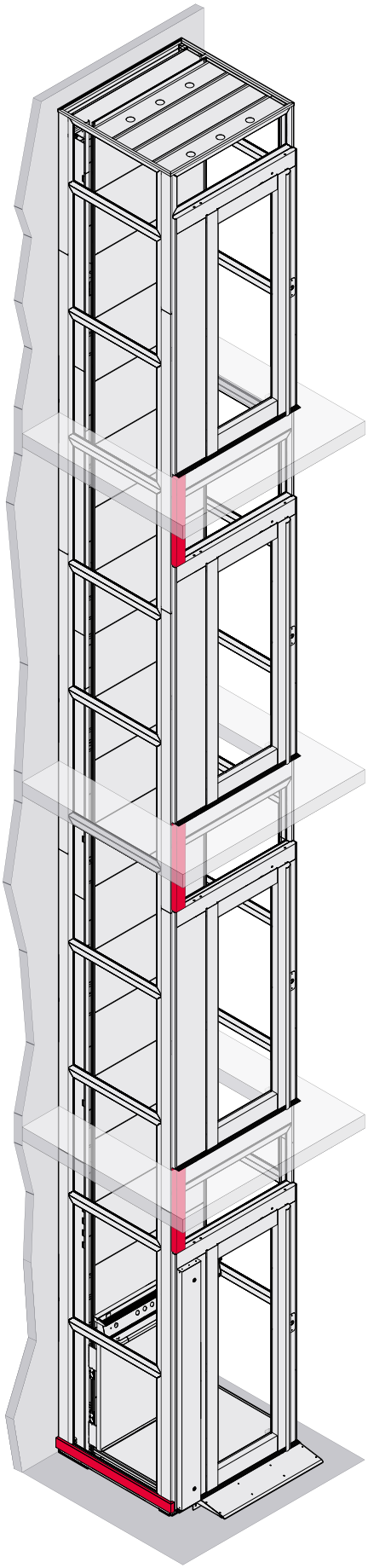
Connect the spotlights to the electrical panel (**UDEC.M**).
Refer to the wiring diagram.



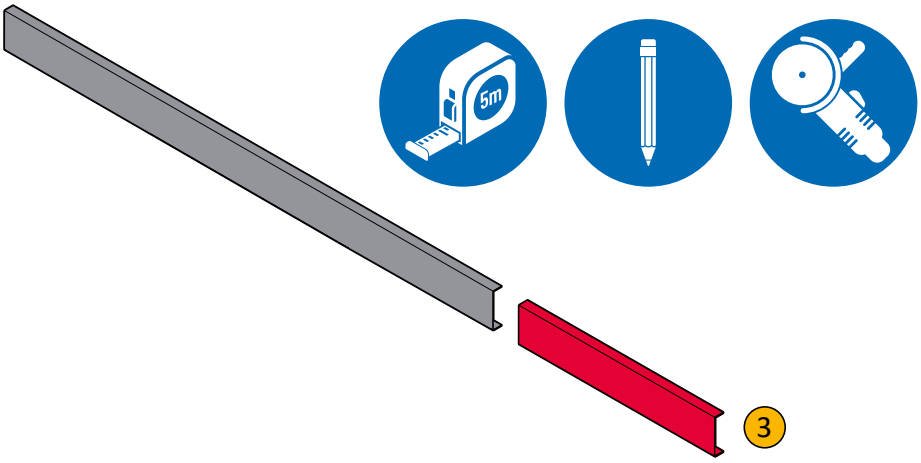
13.22.01 ELECTRICAL CONNECTIONS OF SHAFT - FRONT DOORS TO MECHANICS

- In the case of doors located in front of the mechanics, a 'cable duct kit' is supplied for the passage of wiring outside the structure, consisting of three brackets (1) and a 'C' shaped protective cover (2).





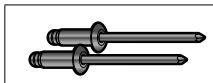
- The cable duct must be cut to size and installed on site (3).



The overall dimensions of cable ducts are not included in GAD

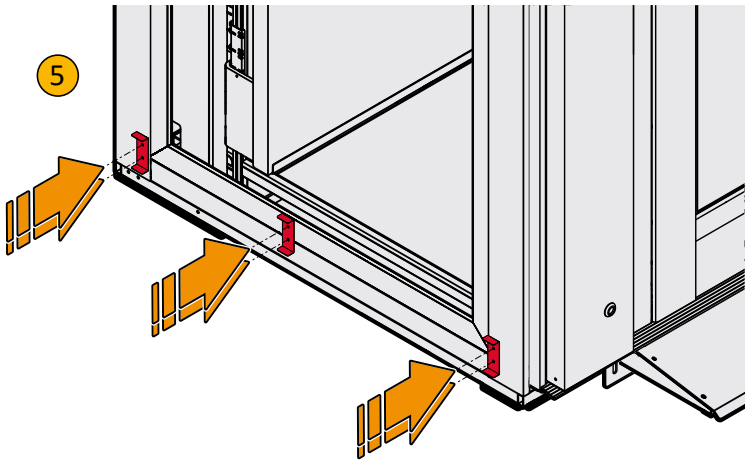
Cable passage openings are to be made on site by the installer

- Fix the brackets with the rivets provided (5).

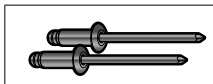


M5x10

F353.23.0005

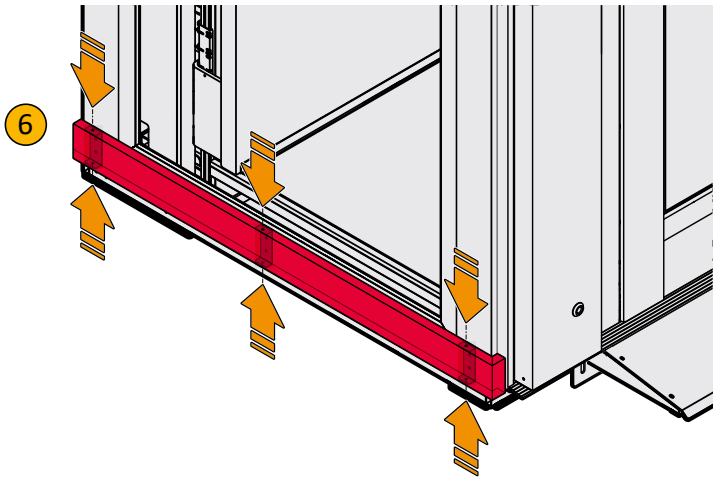


- Fasten the 'C' brackets to the structure, then fix the channel to the brackets with the rivets provided (6).

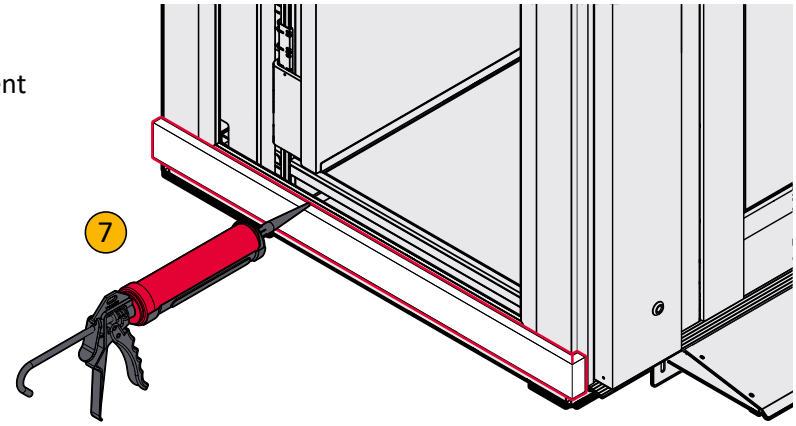


M5x10

F353.23.0005



- We recommend siliconising carefully to prevent moisture penetration (7).



14. Operations to be performed before moving the platform

NOTICE

CAUTION! RISK OF MATERIAL DAMAGE!
Below are some obligatory instructions for preventing any material damage.

AREALIFTING disclaims any liability in case of damage arising from failure to observe this "Technical communication".

14.01. Technical cleaning - pre-movement of the platform

NOTICE

ALWAYS PROTECT THE INTEGRITY OF THE RUNNERS AND GUIDES.
Thoroughly clean the runners and guides, removing debris, metal shavings and dirt that could irreparably damage them during handling.

14.02. Lubrication of guides

NOTICE

Lubricate the guides thoroughly with the supplied silicone spray lubricant before the first manoeuvre..

14.03. Lubrication of the manoeuvring screw

IMPORTANT!

LUBRICATE THE ENTIRE SCREW and properly fill the oil collecting tray with the supplied lubricant before the first manoeuvre.

OIL TANK - CORRECT FILLING!
Correct filling of the oil tank and subsequent impregnation of the sponge is essential to avoid damage to the platform caused by failure to lubricate the drive screw.

5W-40

USE ONLY THE SPECIFIED OIL (5W-40)

15. First test travel

WEAR APPROPRIATE PPE

Before performing the first test travel, make sure that all electrical components are connected correctly.

NOTICE

IT IS RECOMMENDED TO PERFORM A FULL TRAVEL WITH THE SLING IN ADVANCE:

- thoroughly clean the guide rails and and lubricate them with SILICONE-BASED SPRAY OIL (SUPPLIED WITH THE PLATFORM- F353.05.9017);
- Visually check that there are no visible obstacles or protruding materials along the shaft that could interfere with the sling and the basement.
- Check that all STOPS are disabled.
- Check that the safe pit device is disabled;
- Check that the distance between the car and the headroom is the same as that indicated by the design.
- Power the controller by operating it in SERVICE mode.

NOTICE

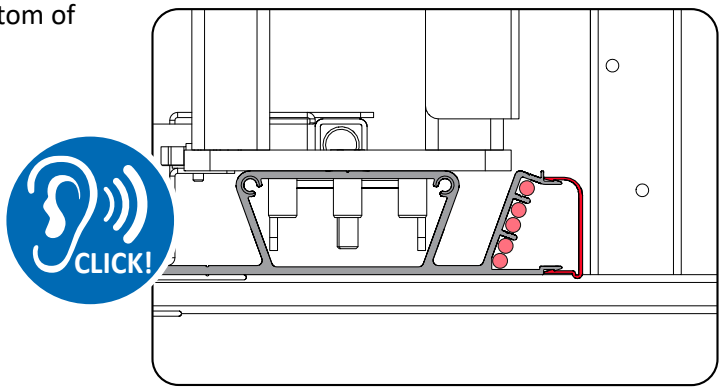
WITH THE SLING STATIONARY AT THE TOP FLOOR:

- Check that the sling upper travel margin on the guide rails corresponds to the design drawing.
- Adjust the position of the limit switch so that it trips after a lifting of approximately 30mm above the floor.
- Lower the sling to the lowest floor.
- Pay close attention to the proper length of the flat cable and any interference during the travel.
- Adjust the position of the lower limit switch so that it trips after a downward travel of approximately 10 mm below the lowest access.
- Perform a few full travels, checking:
- the movement of the flat cables;
- any abnormal noise;
- that the limit switches do not encounter obstacles.

16. Platform completion assembly

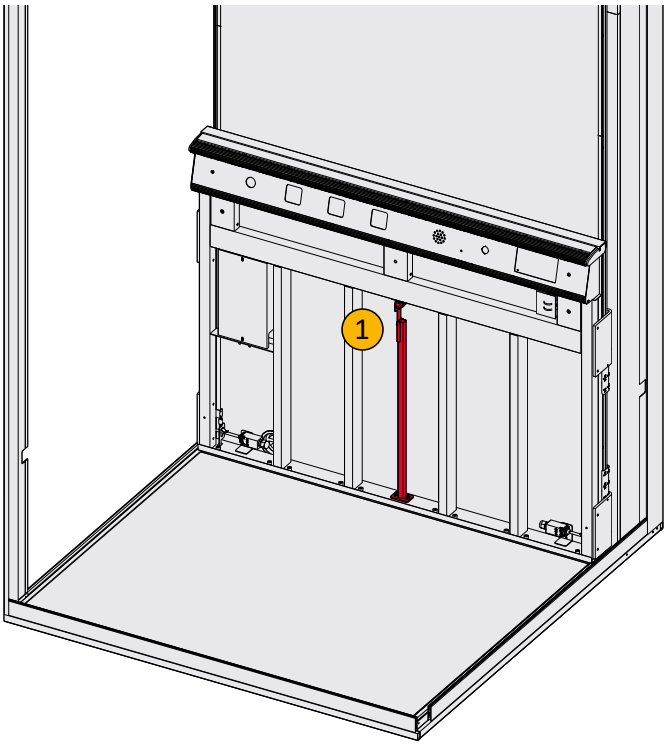
16.01. Wiring cover profile

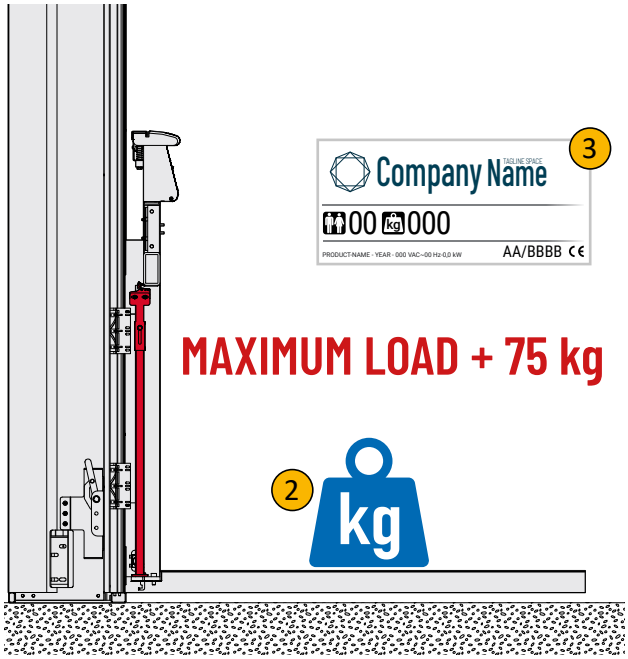
- Install the wiring cover profile starting from the bottom of the pit to the headroom from the bottom upwards.



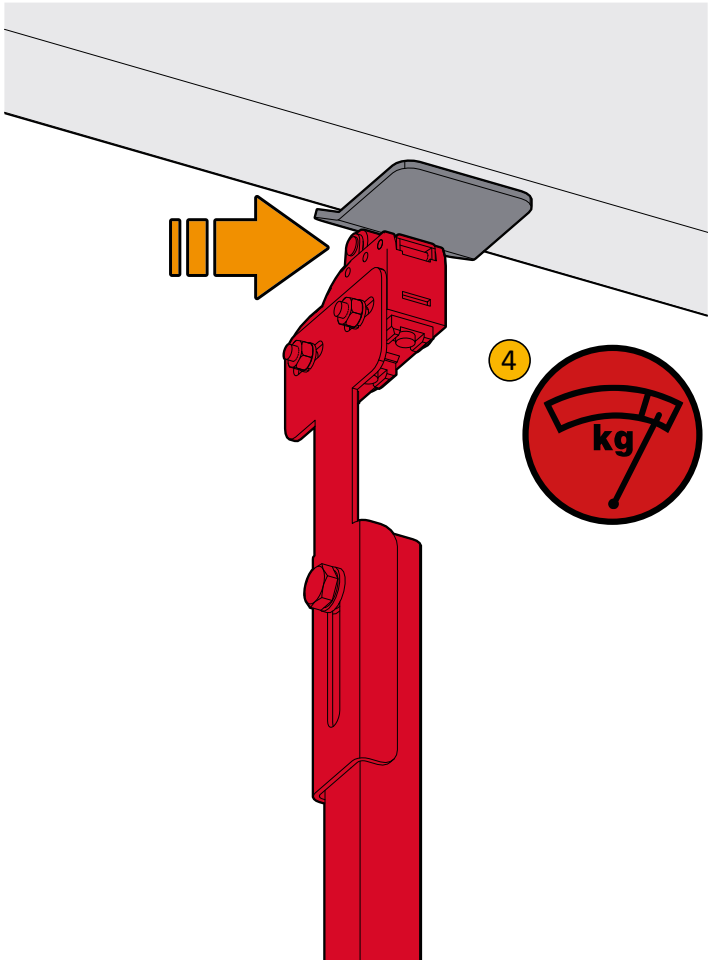
16.02. Overload contact - adjustment

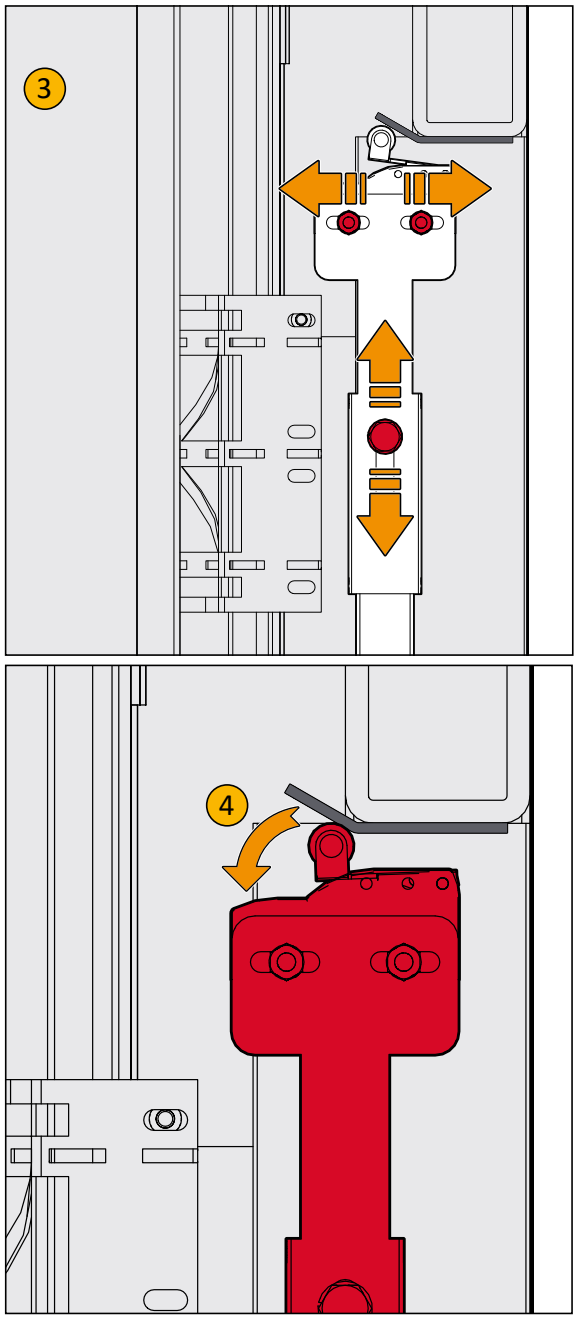
- Access the mechanical compartment of the platform wall..
- Locate the overload contact in the platform (1) with its supporting pillar.
- Load the platform with the maximum permissible weight (2), indicated on the installation plate, adding 75 kg weight.





- With the "overload load" of the maximum permitted weight on the leveller, adjust the leveller contact (3) so that it is closed (alarm active) (4).



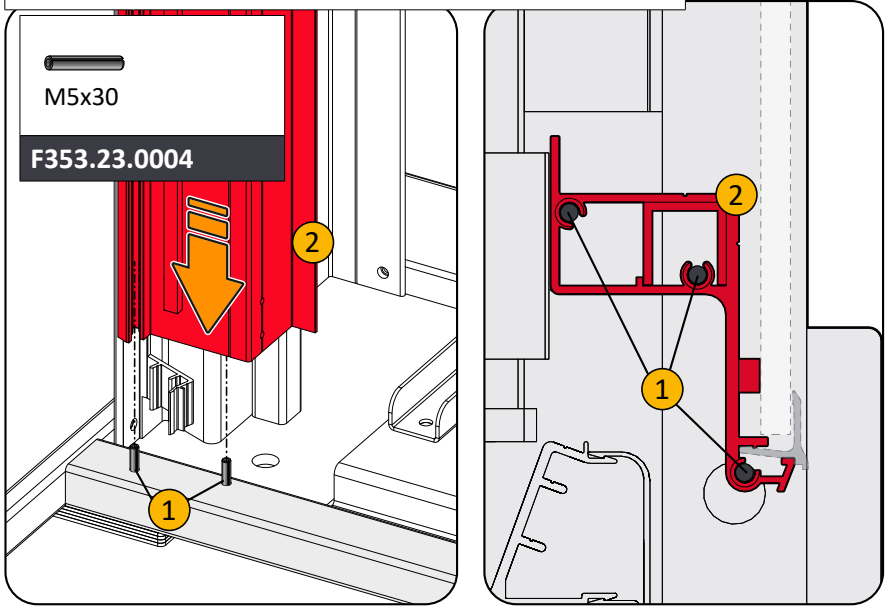


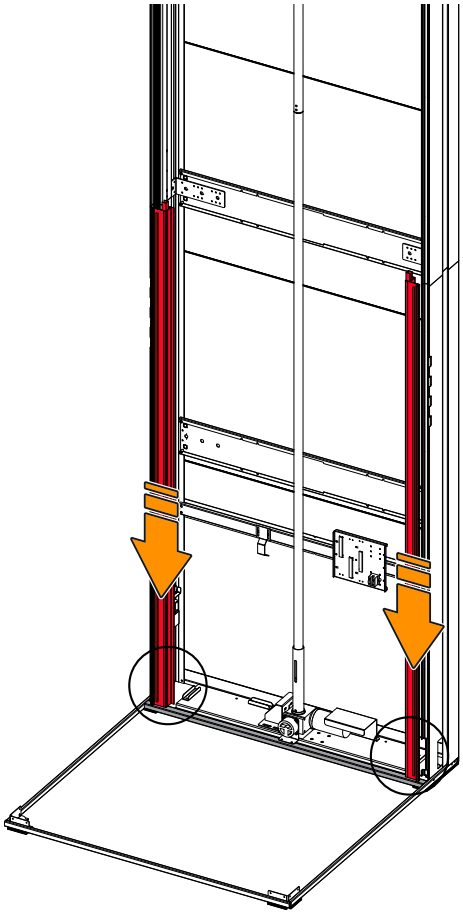
- When the load is removed from the platform, the sensor will reopen (alarm off) due to the return of the loading platform to its position. An alarm activation setting will have been obtained a overload setting.

16.03. Mechanical protection panels

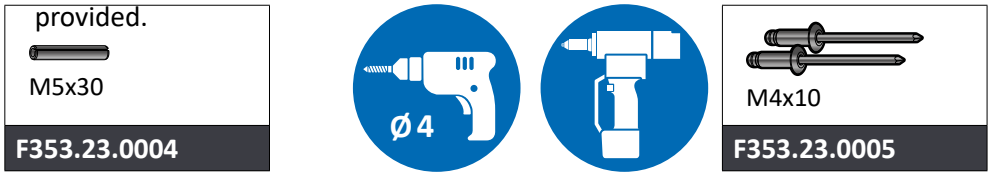
- Insert the spring pins into the appropriate housings on the pit floor template only for half their length, letting them protrude by half their length from the profile , and insert the support rails of the mechanics' infill panels.

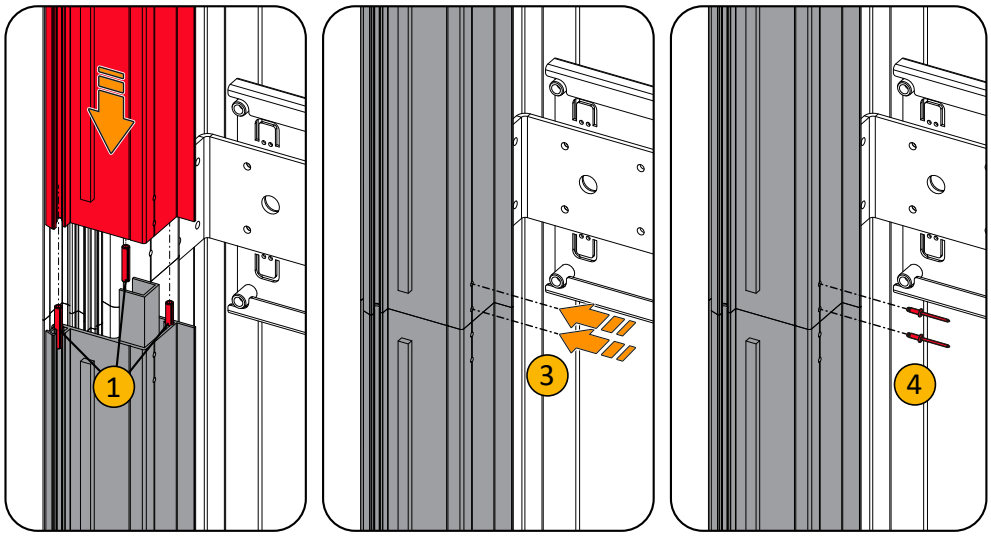
Fix the pins with a drop of cyanoacrylate adhesive to improve rail assembly.

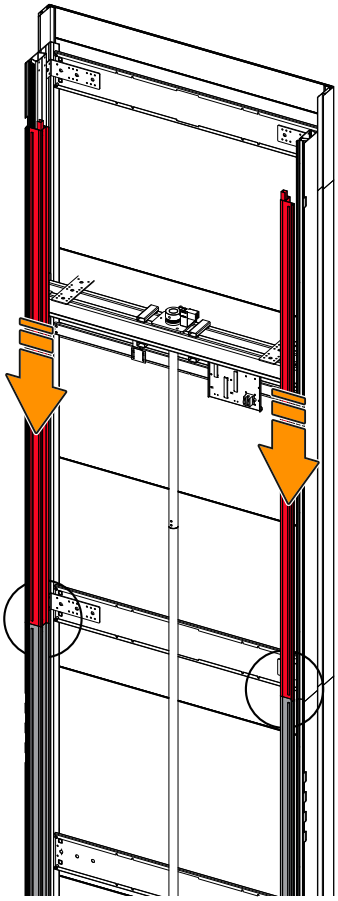




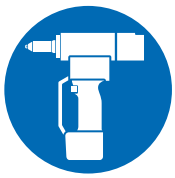
- Place the pins in the profile and insert the next guide rail.
- Drill the guide rail joint (pre-assembled in the bottom guide rail) at a position corresponding to the prearranged holes.
- Assemble the guide rail segments and secure them with the screws provided.

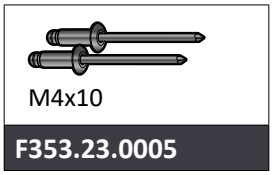




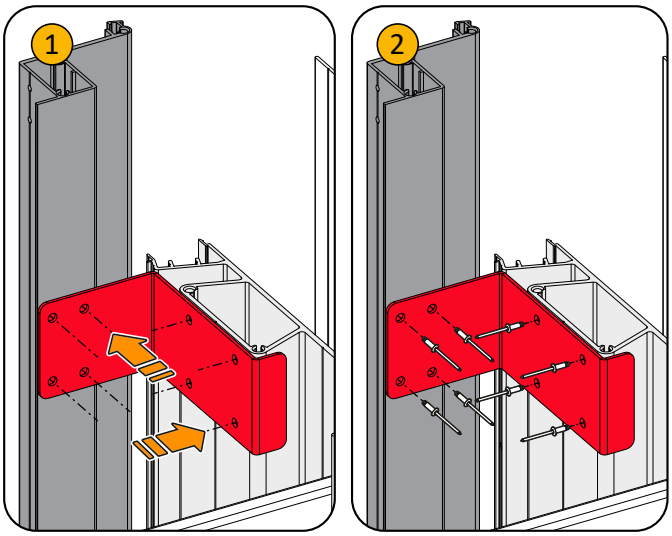


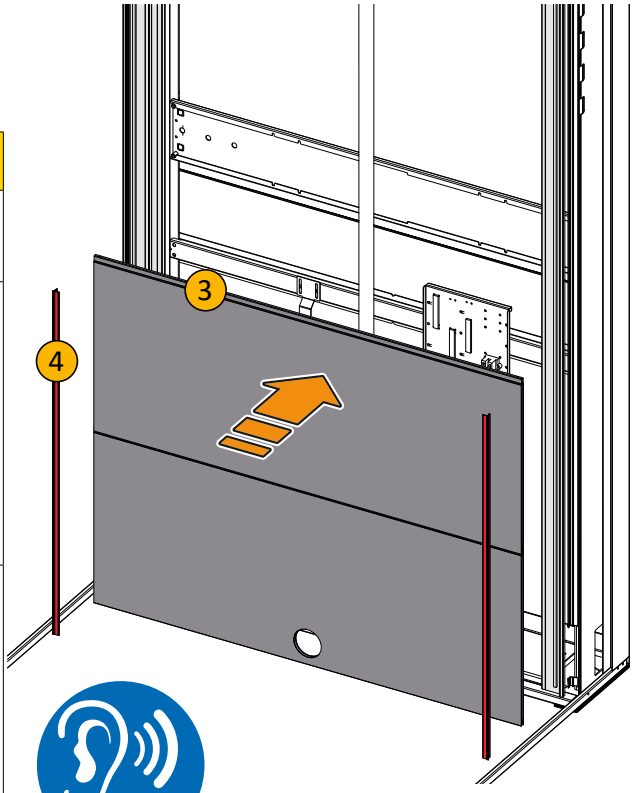
- Position the brackets in the headroom and drill the casing support guide and the mechanical guide.
- Drill (1) and secure the brackets with the rivets supplied (2).





- Position the mechanical protection panels together with the snap-on profiles on the support rails of the mechanics' infill panels.

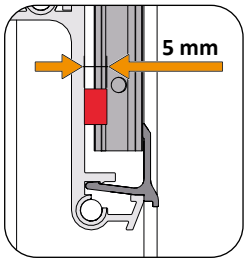




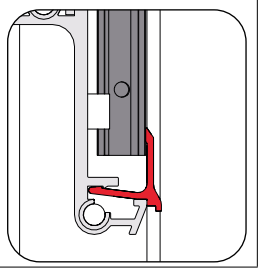
CAUTION

INCORRECT INSTALLATION MAY CAUSE THE INFILL PANELS TO FALL

Check the correct thickness of the gasket (5 mm) and its complete integrity on both sides.

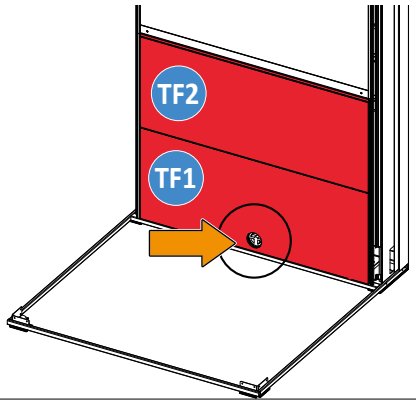


Check that the infill panels are in place, correctly aligned and secured. Verify that the snap-on profiles are properly engaged

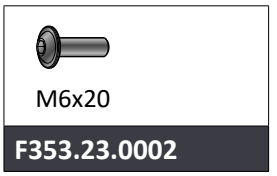


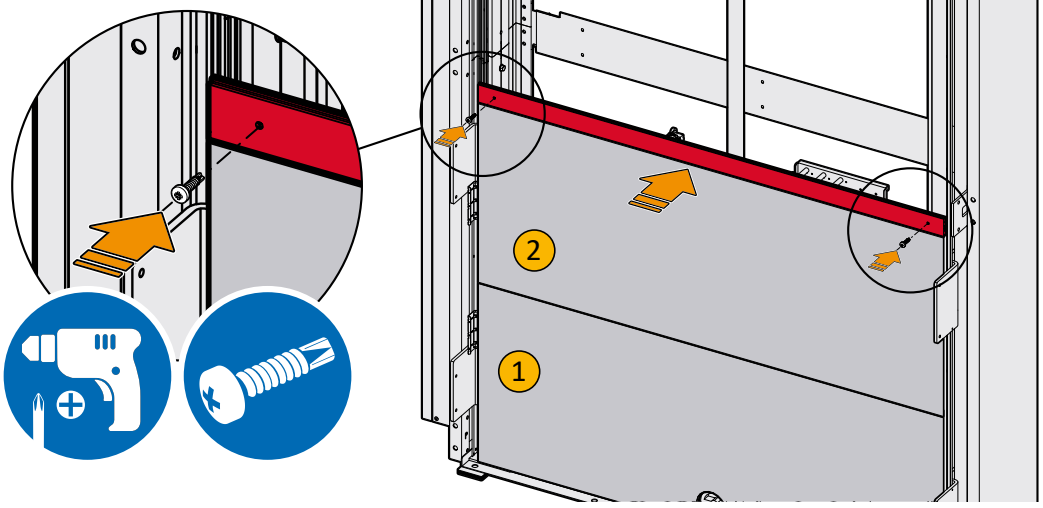
Check the correct positioning of the infills: the pit panel (TF) can be distinguished from the others because it is provided with a hole. This hole must be positioned toward the bottom of the pit as it is used to access the “PIT BOTTOM STOP” safety device.

Secure with glue the ring nut provided.

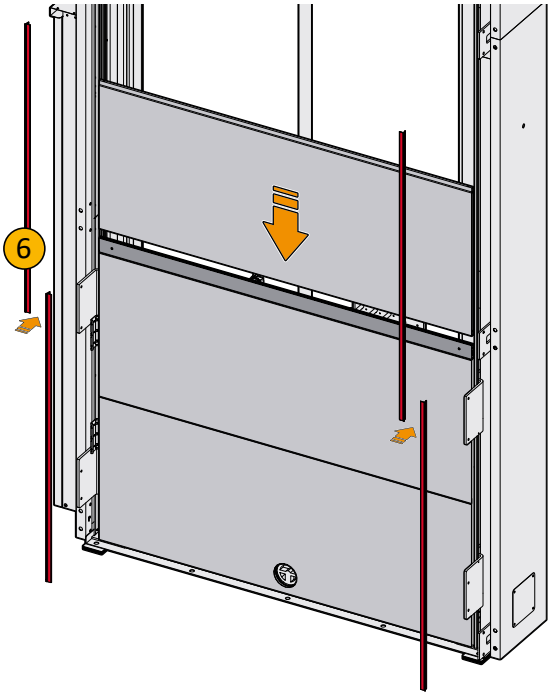


- On top of the pit panels (1)+(2), position the bracket (section-breaker profile) (3) with the screws provided.

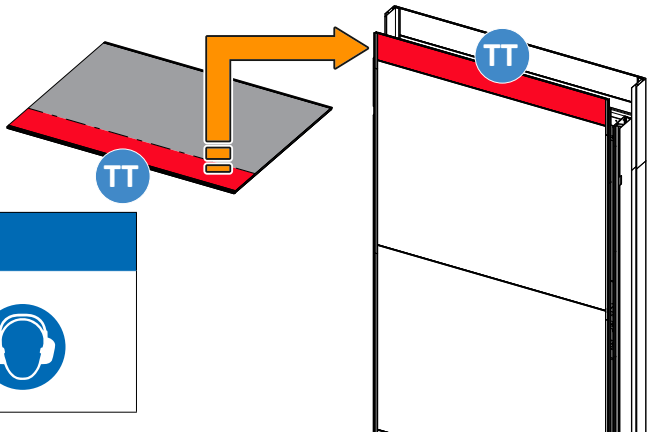




- Proceed with the installation of all mechanical protection panels with the snap-on profiles provided.



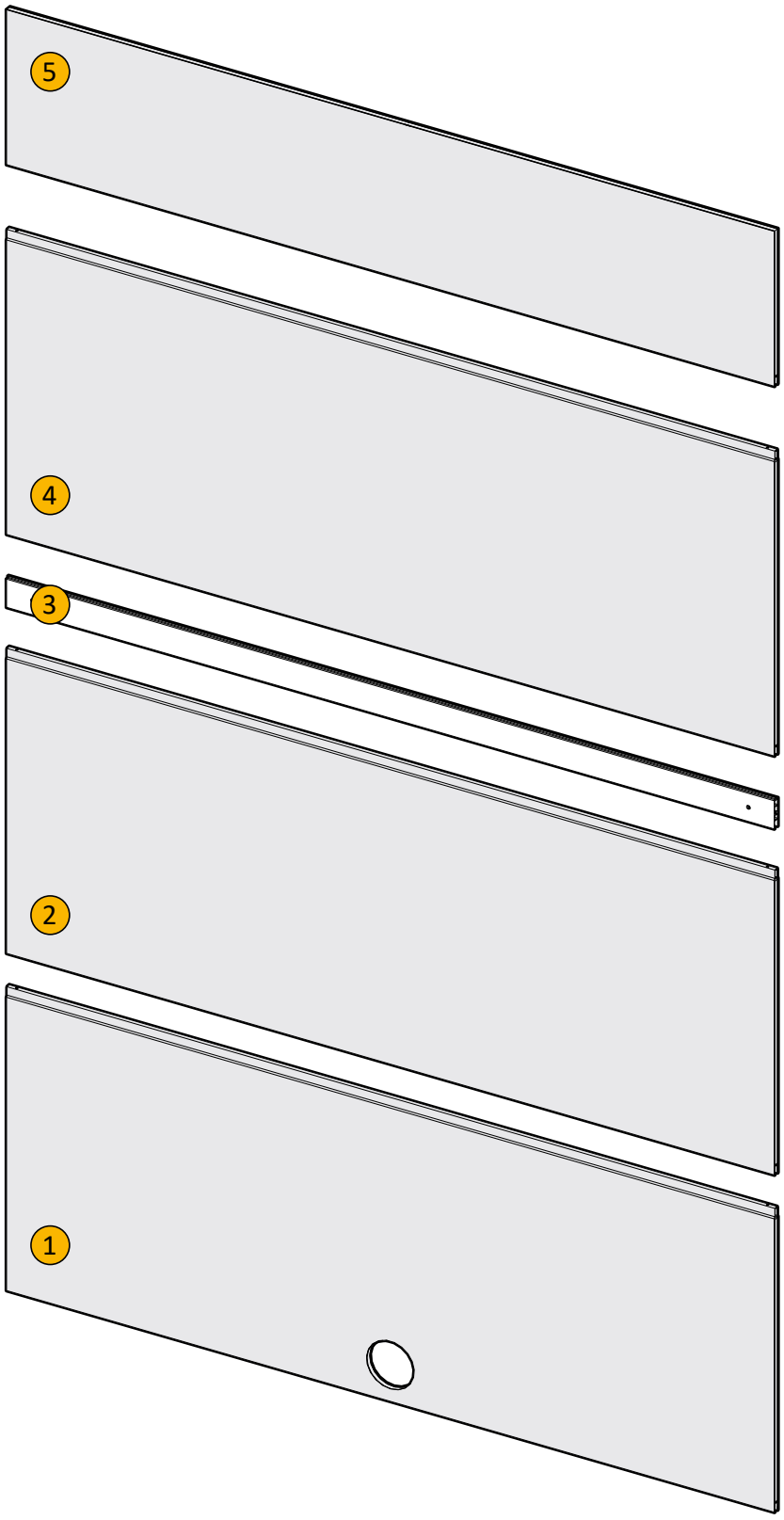
The infill IN THE HEADROOM SHOULD BE CUT AT THE INSTALLATION SITE.



16.03.01 INTERNAL MECHANICAL INFILL PANELS - RECOGNITION

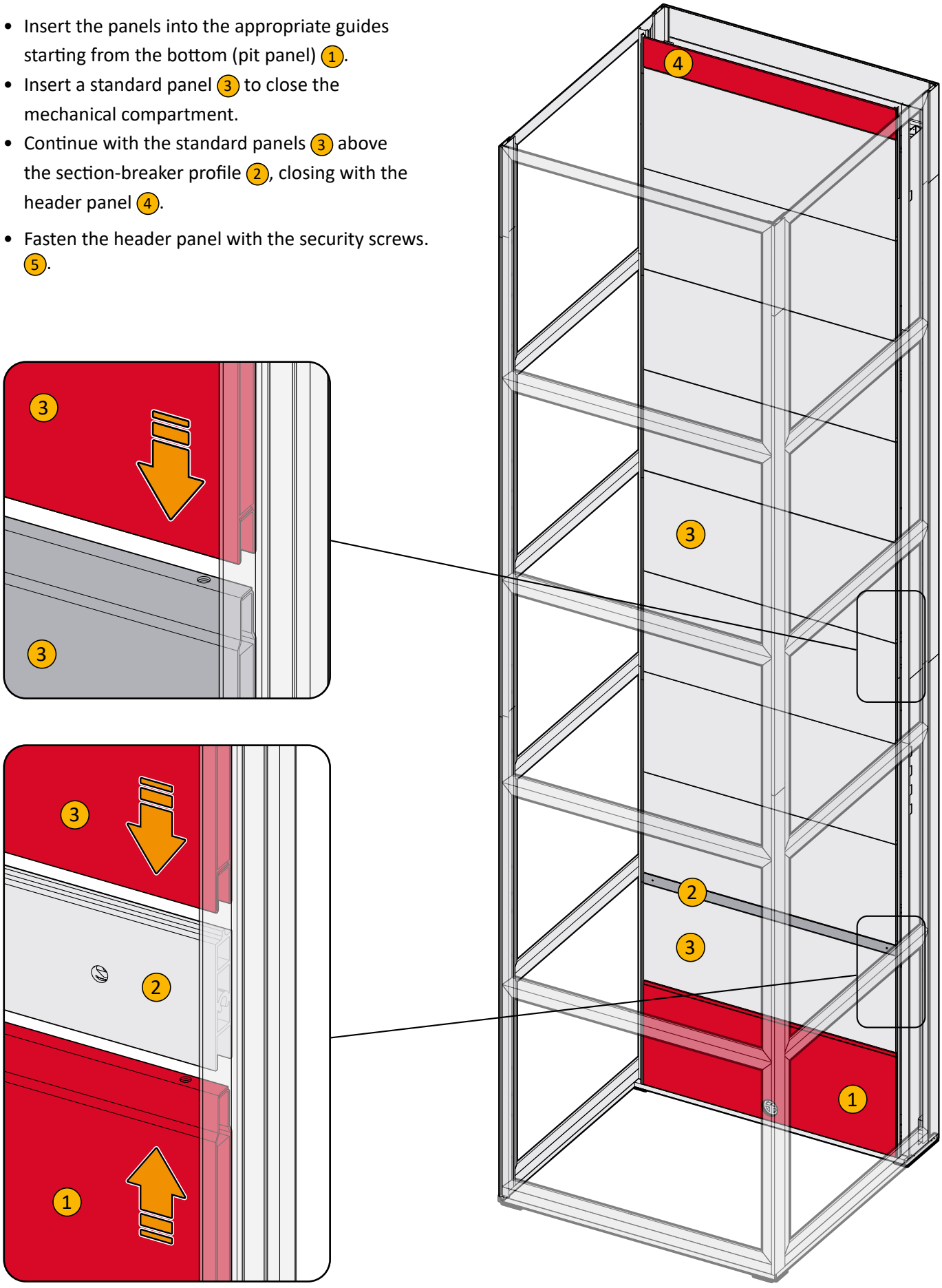
There are 3 types of infill panels:

1. PIT PANEL.
   It is one and is installed in the pit bottom
2. MECHANICAL COVER PANEL.
   This is only one and is installed above the pit panel. l
3. SECTION-BREAKER PROFILE.
   Allows easy removal of the mechanical cover panel.
   It is installed above the mechanical cover profile (2) and secured to the profiles with the appropriate screws.
4. STANDARD PANEL.
   Being of standard height they are interchangeable with each other.
5. HEADER PANEL.
   Varies in height according to the system; in the case of a roof, it is equipped with a fastening lug with the same.



16.03.02 INTERNAL MECHANICAL INFILL PANELS - MOUNTING

- Insert the panels into the appropriate guides starting from the bottom (pit panel) (1).
- Insert a standard panel (3) to close the mechanical compartment.
- Continue with the standard panels (3) above the section-breaker profile (2), closing with the header panel (4).
- Fasten the header panel with the security screws. (5).

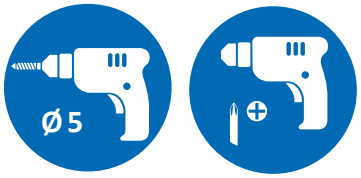


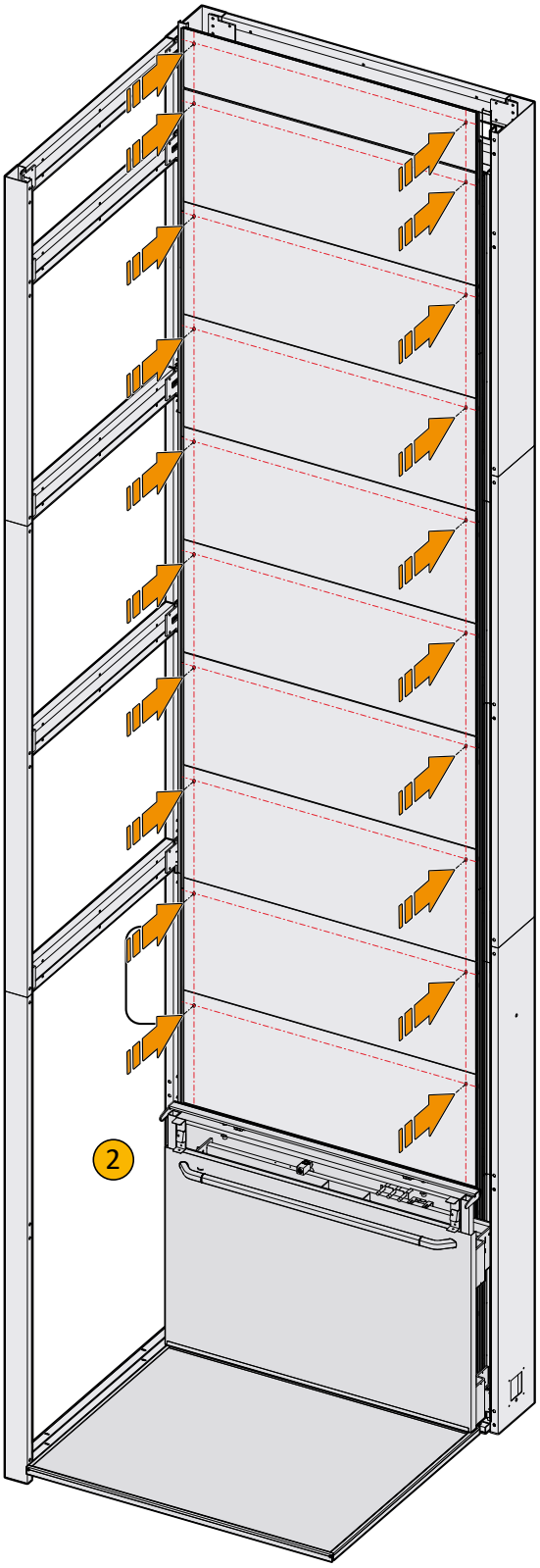
16.03.03 INTERNAL MECHANICAL INFILL PANELS - SECURITY FIXINGS

IMPORTANT!

Additional fastening may be mandatory according to local safety regulations.
Ensure that it is carried out if such regulations are in force in the country of installation.

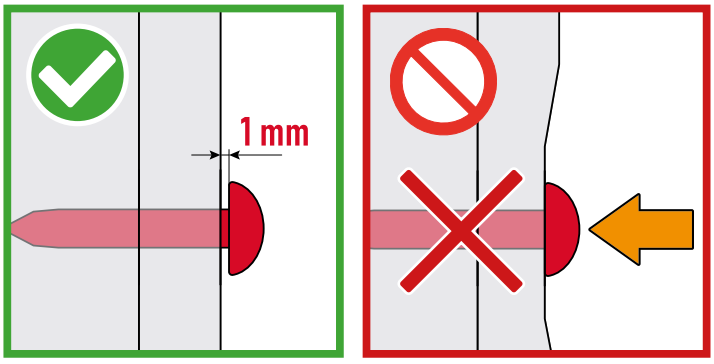
- With the infill panels installed, drill holes as shown in the figures (1)+(2).
- Fix to the backing support guides with the self-tapping screws provided.



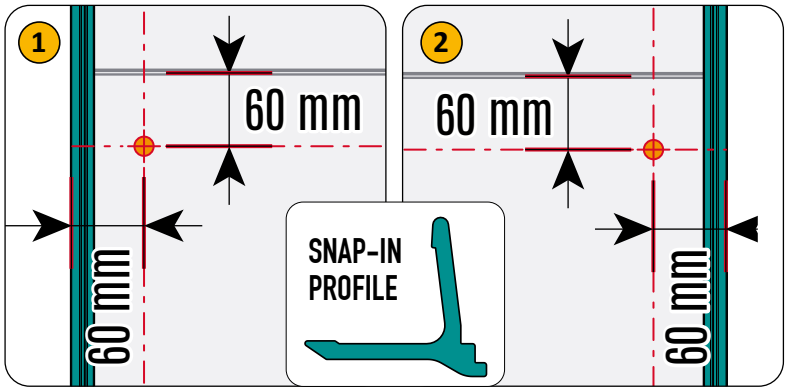


IMPORTANT!

RISK OF PANELS DAMAGING.
Do not tighten the safety screw, to avoid damaging the panels. Leave a clearance of 1 mm.



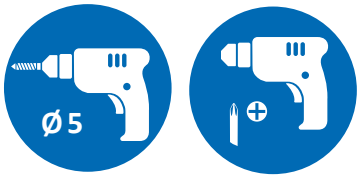
BL (BLIND) PANELS

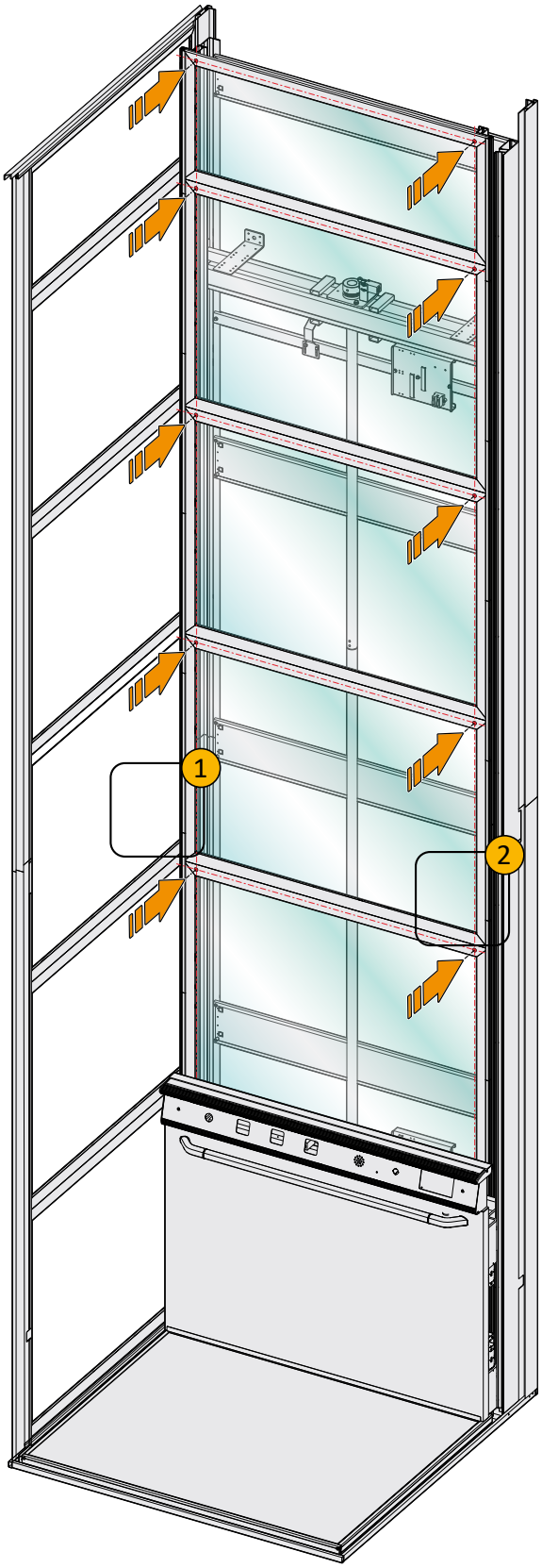


IMPORTANT!

Additional fastening may be mandatory according to local safety regulations.
Ensure that it is carried out if such regulations are in force in the country of installation.

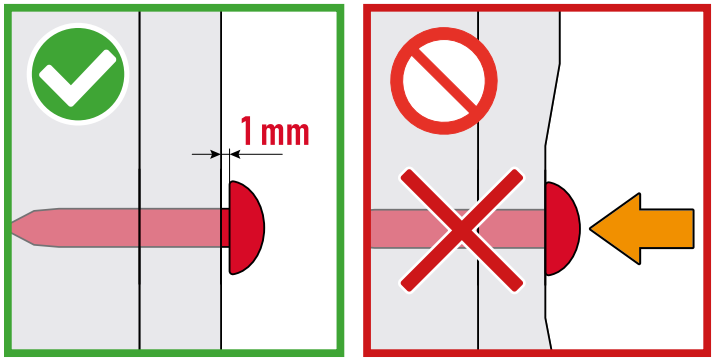
- With the infill panels installed, drill holes as shown in the figures (1)+(2).
- Fix to the backing support guides with the self-tapping screws provided..



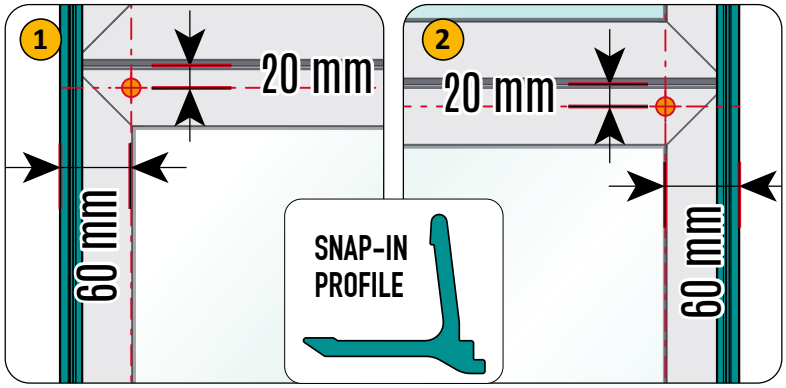


IMPORTANT!

RISK OF PANELS DAMAGING.
Do not tighten the safety screw, to avoid damaging the panels. Leave a clearance of 1 mm.



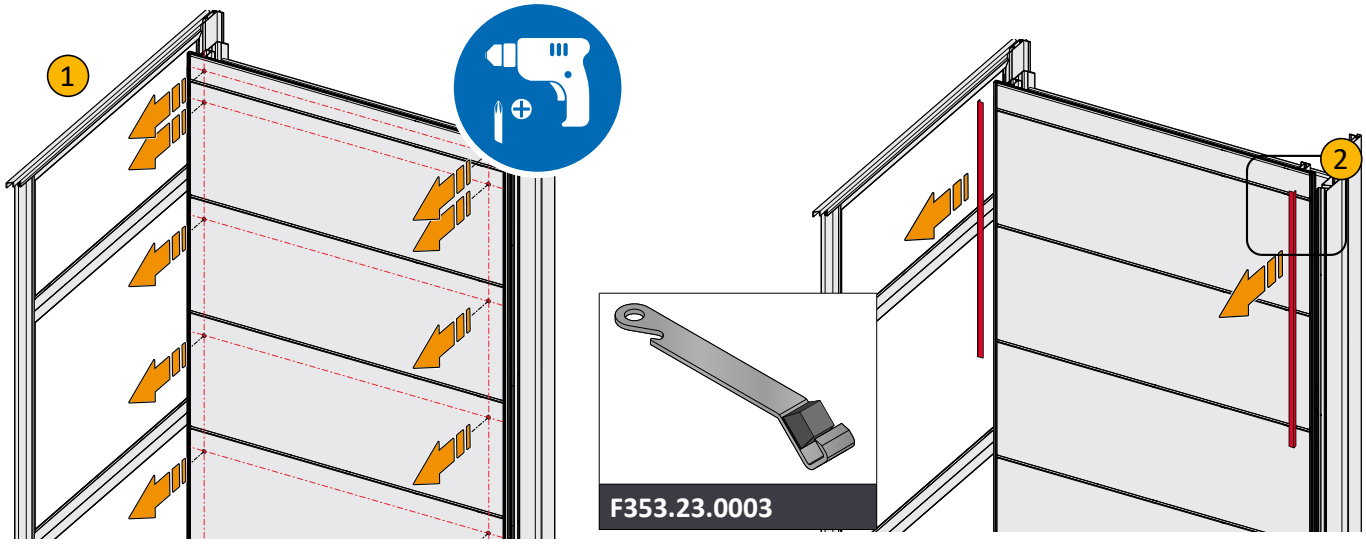
GL (GLASS) PANELS)



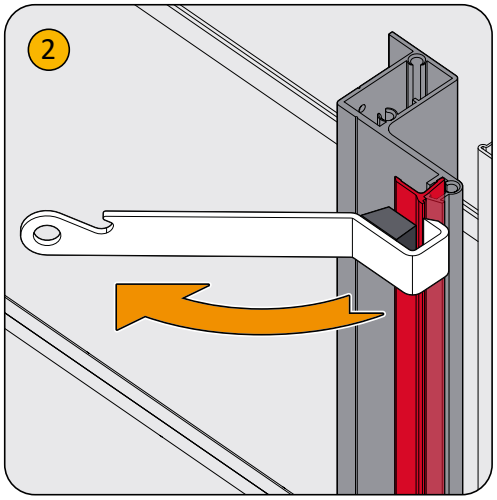
16.04. Internal mechanical infill panels - removal

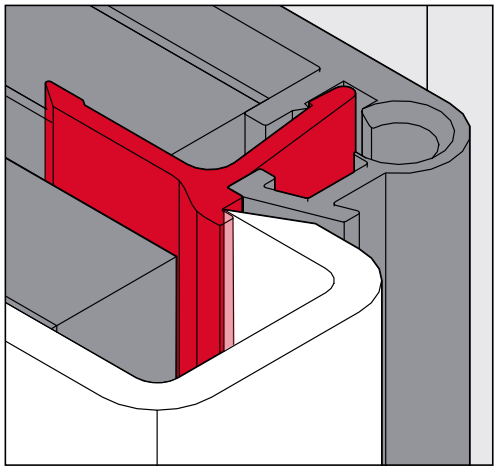
IMPORTANT!

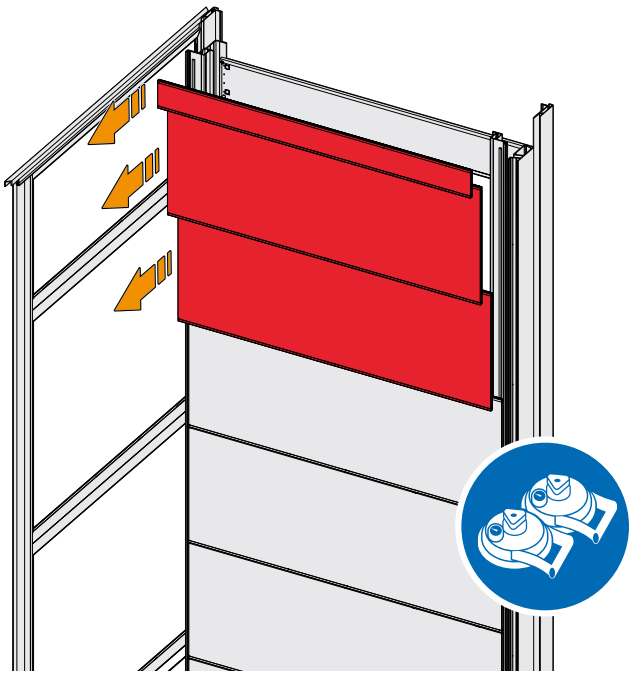
Check whether the additional safety fastening has been carried out and remove screws if present (1).



- Remove the snap-in profiles using the lever provided in the kit (2)
- Remove the infill panels starting from the top (3)



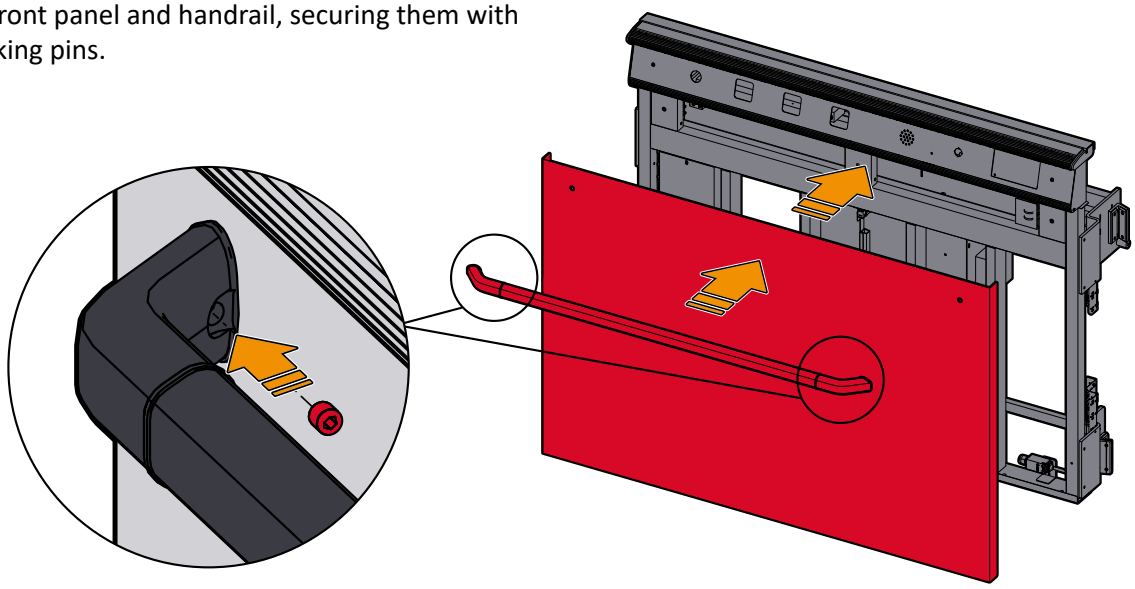




16.05. Front panel and handrails

CAUTION		WEAR APPROPRIATE PPE
	**CRUSHING HAZARD** Lift the components using suitable lifting equipment and always wearing appropriate PPE.	

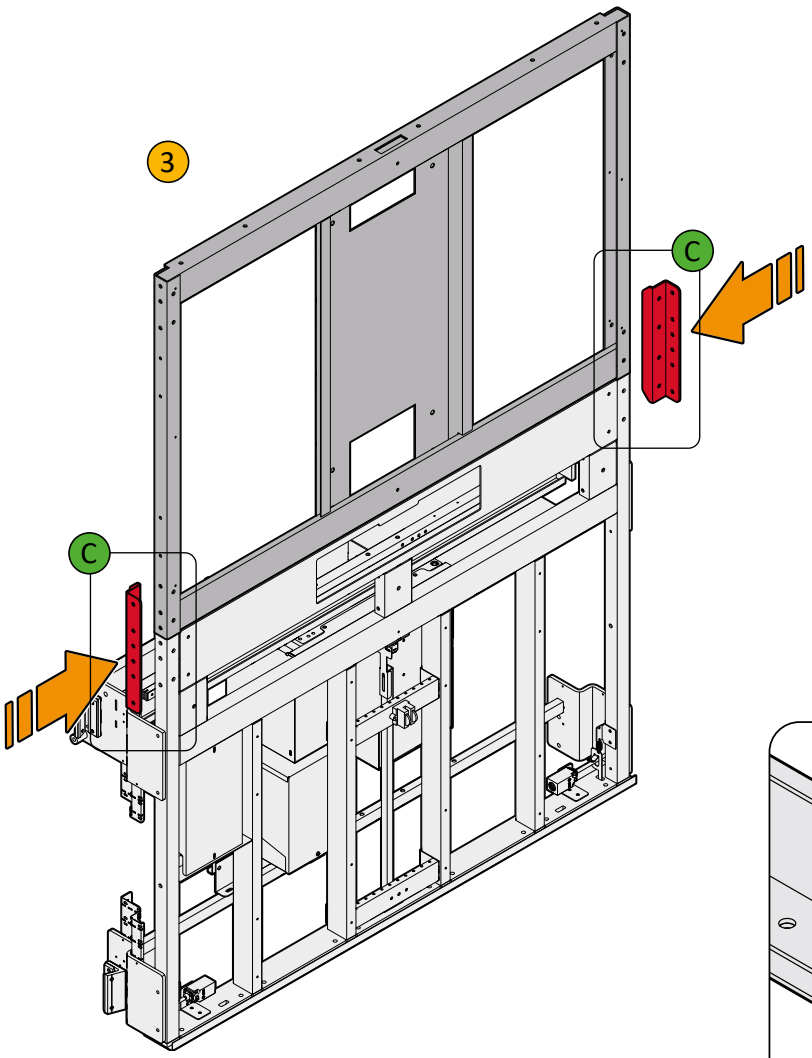
- Reposition the front panel and handrail, securing them with the handrail locking pins.

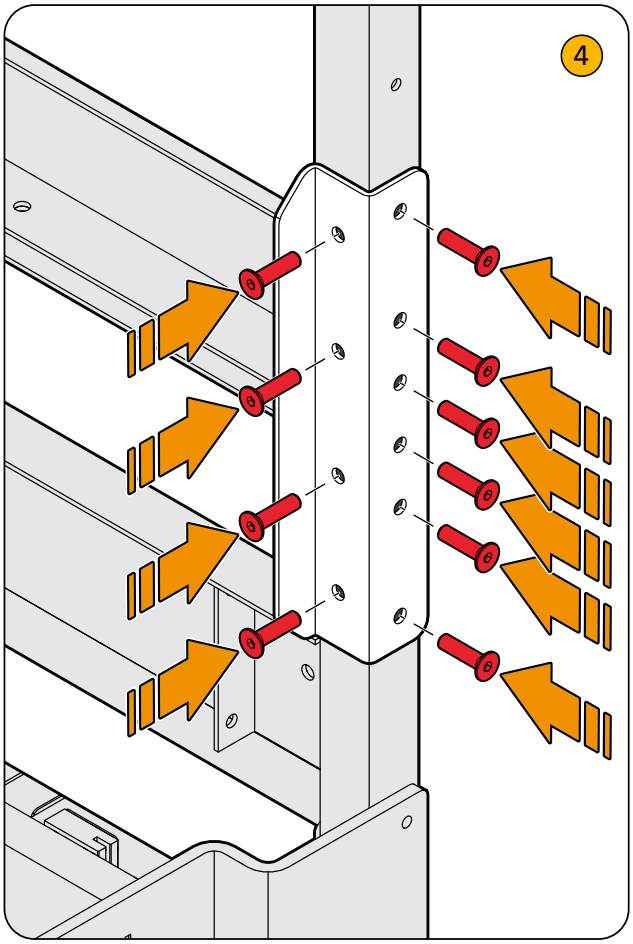


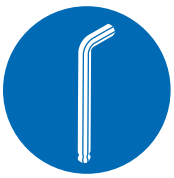
16.06. IconLift - high wall - mounting

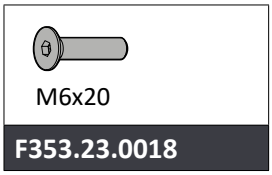
3 Position the reinforcement plates C .

4 Fix the extension chassis to the carrier template using the screws provided in the kit.







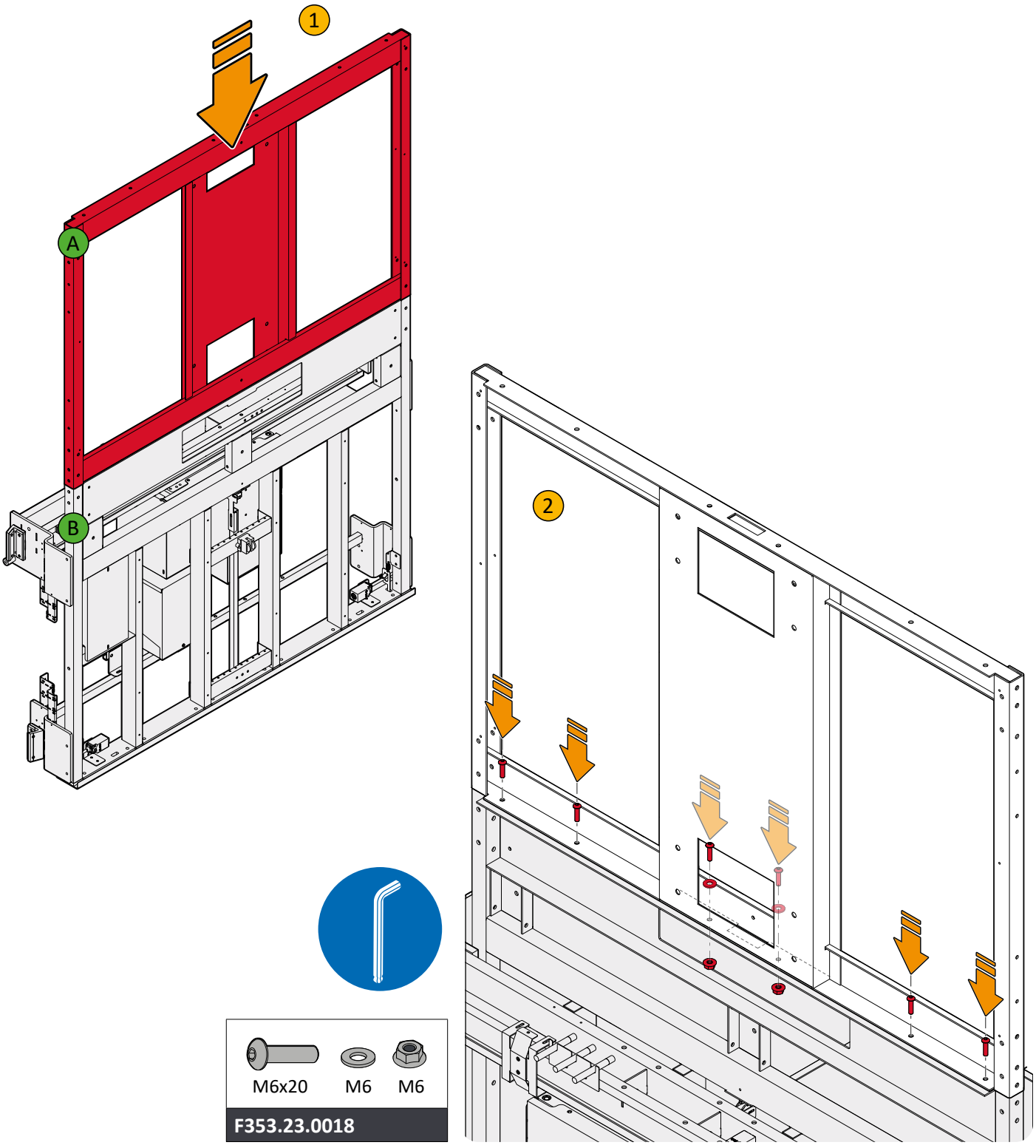


16.07. Full height Platform wall (only for IconLift) - assembly

16.07.01 FULL HEIGHT PLATFORM WALL - PRE-ASSEMBLY OF EXTENSION

(1) Position the extension chassis (A) on the carrier template (B).

(2) Fasten the extension chassis to the carrier template (D) using the screws provided in the kit.

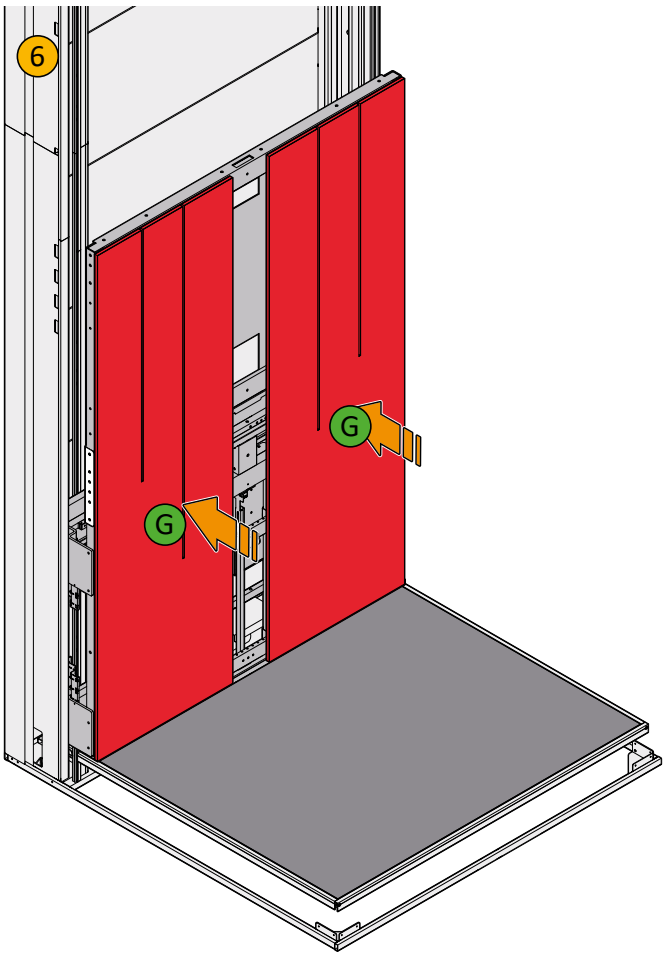


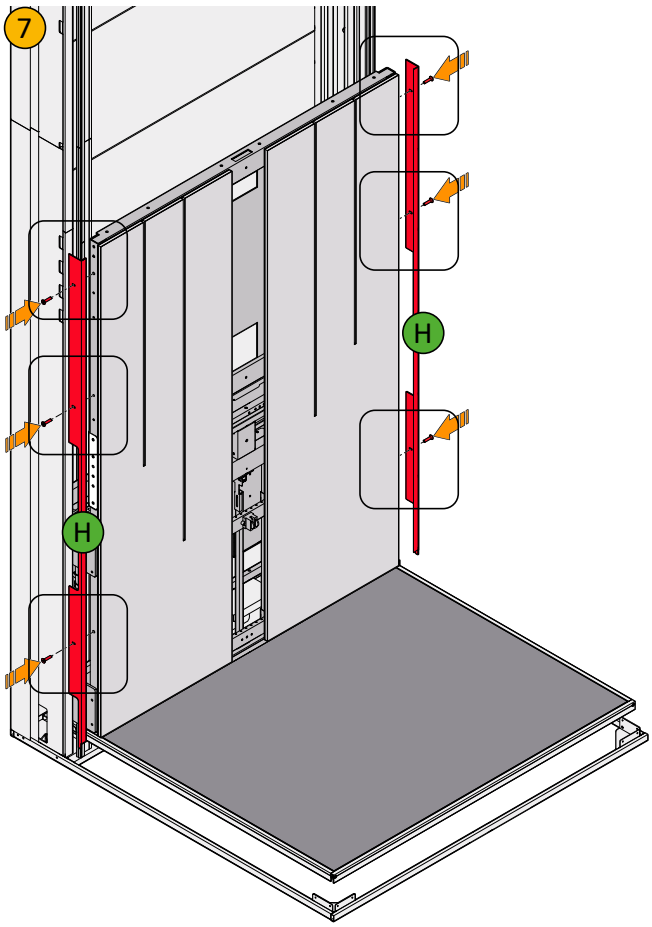
16.07.02 WALL CLADDING AND CEILING SHELF - ASSEMBLY

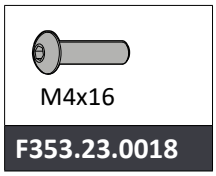
6 Position the platform wall cover panels (two sections) G.

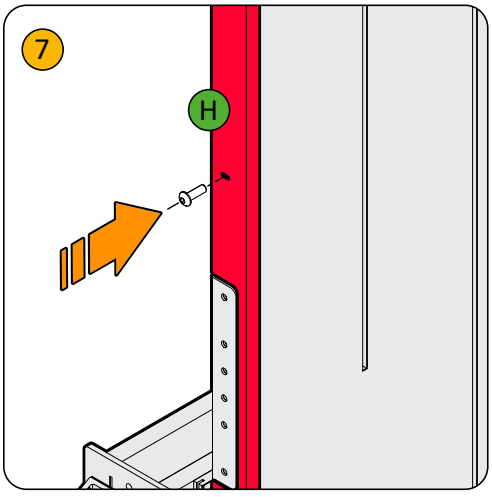
7 Remove the canopy cover plate H.

8 Position the "cieling shelf" I and faix it to the platform wall extension J with the screws supplied in the kit



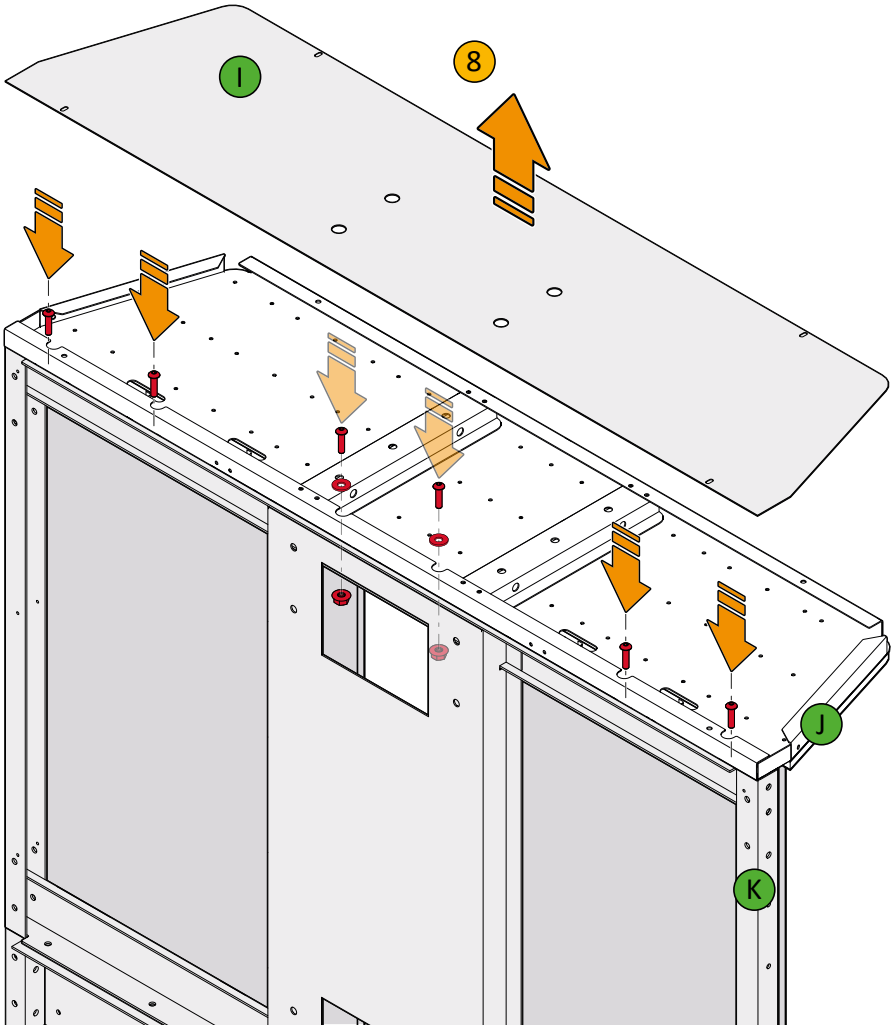


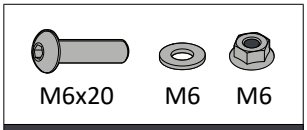




8 Remove the canopy cover plat I.

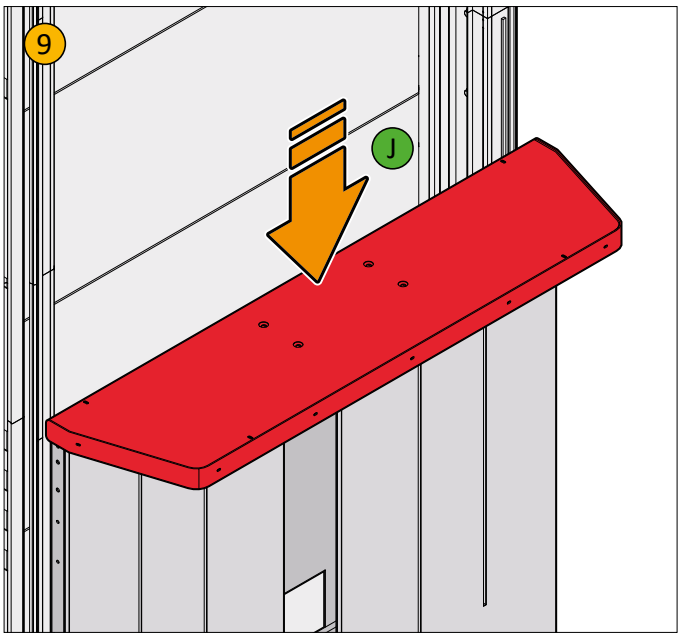
9 Position the 'ceiling shelf' J and secure it to the footplate wall K with the screws provided in the kit.





F353.23.0018

10 Refit the canopy cover plate I

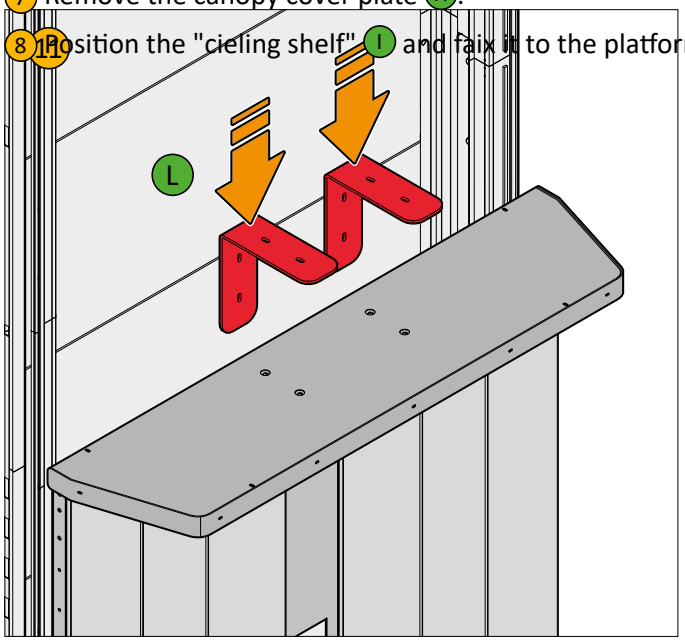


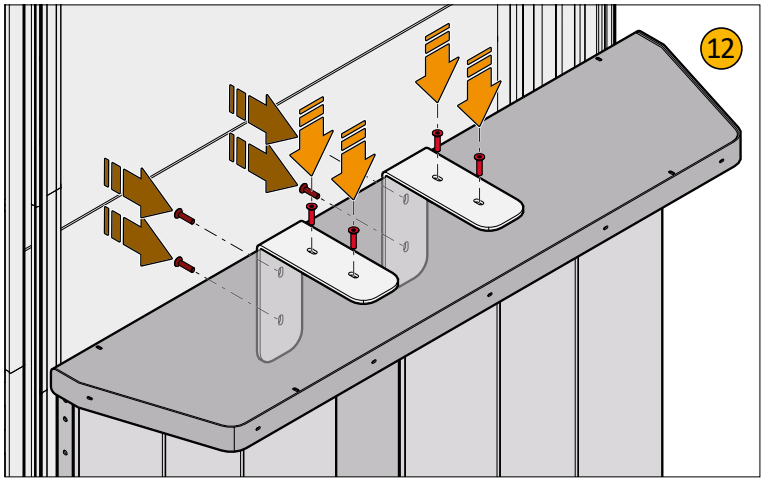
16.07.03 WALL CLADDING AND CEILING SHELF - ASSEMBLY

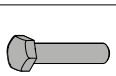
6 Position the platform wall cover panels (two sections) G.

7 Remove the canopy cover plate H.

8 Position the "cieling shelf" I and faix it to the platform wall extension J with the screws supplied in the kit

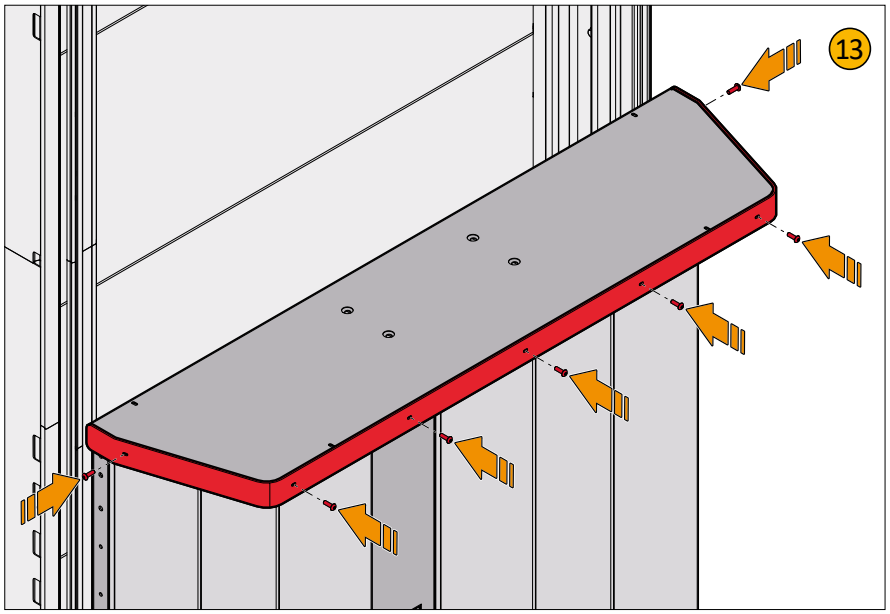






M8x30

F353.23.0018

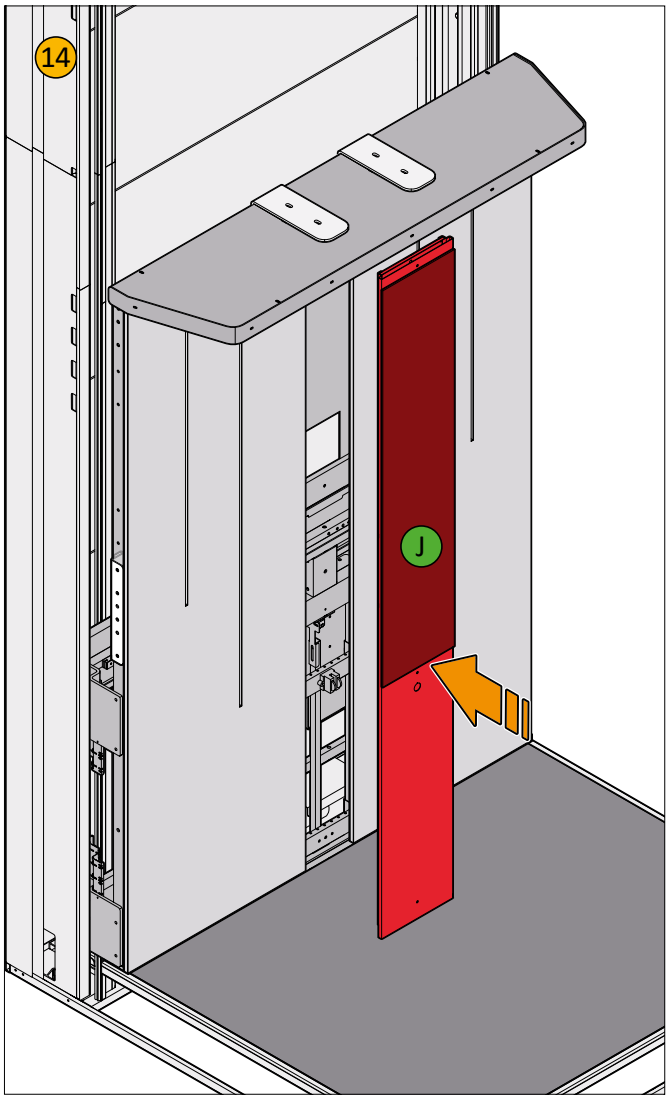


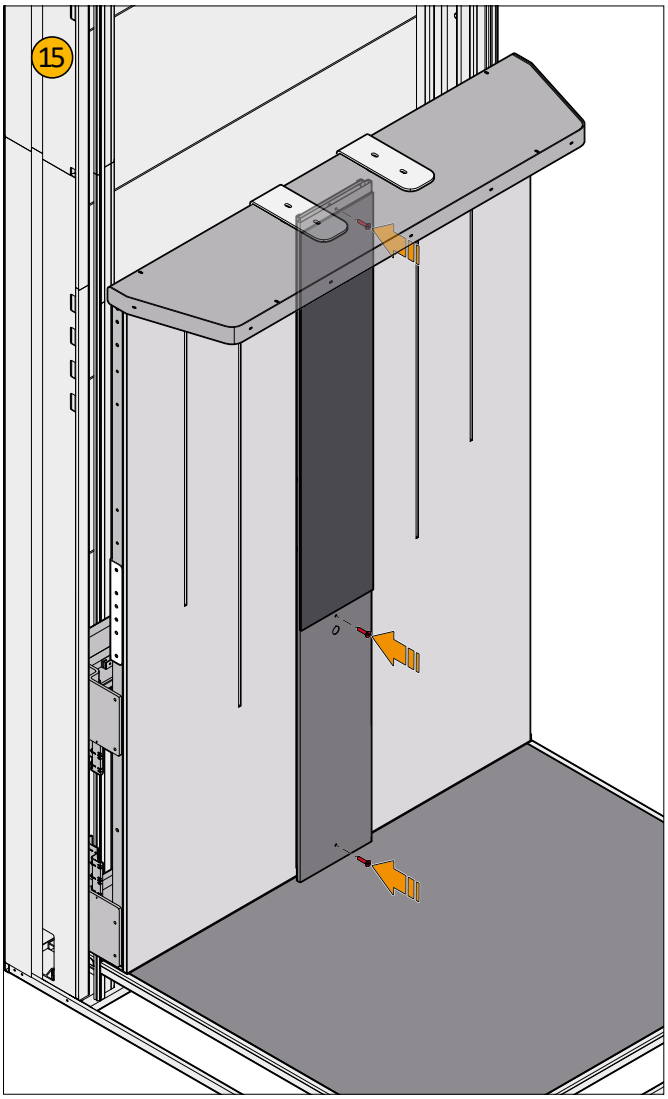
M4x16

F353.23.0018

8 Remove the canopy cover plat I.

9 Position the ‘ceiling shelf’ J and secure it to the footplate wall K with the screws provided in the kit.



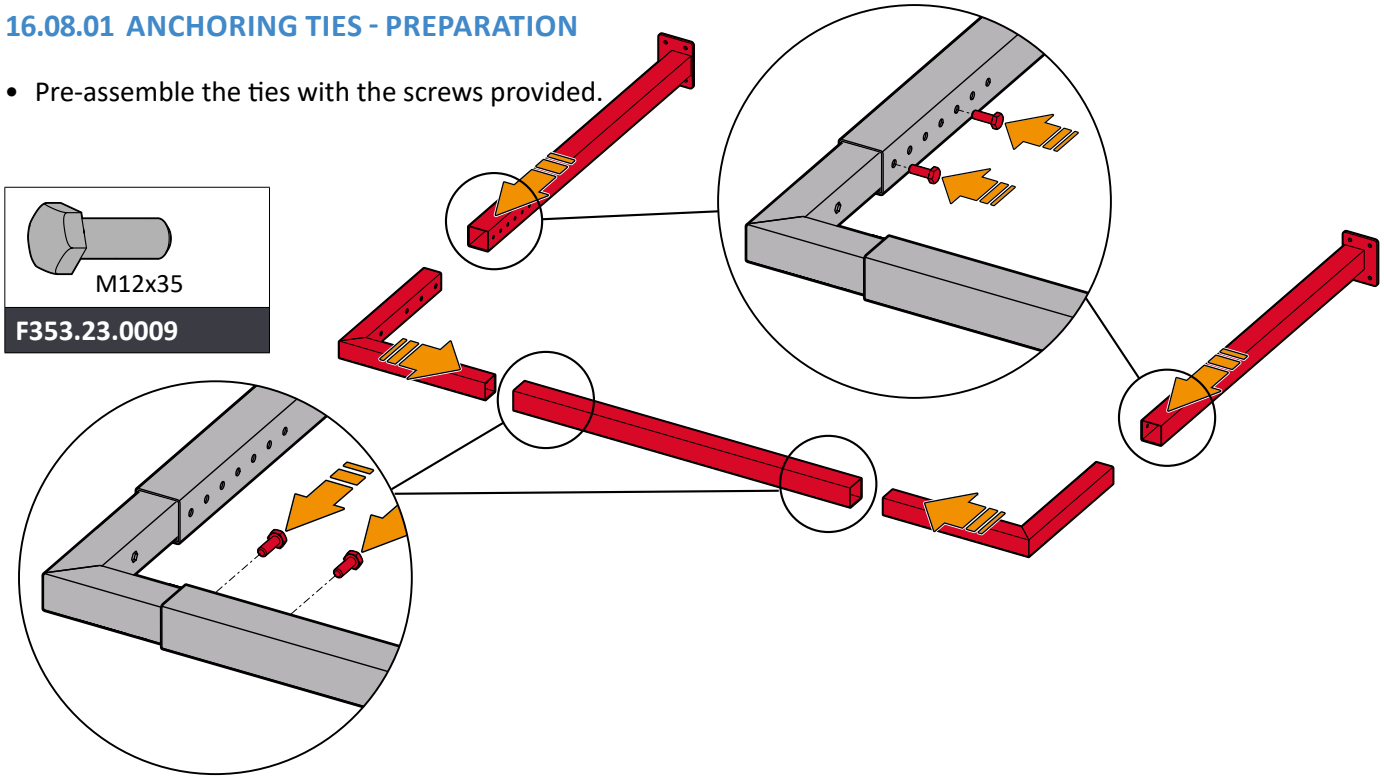


10 Refit the canopy cover plate I

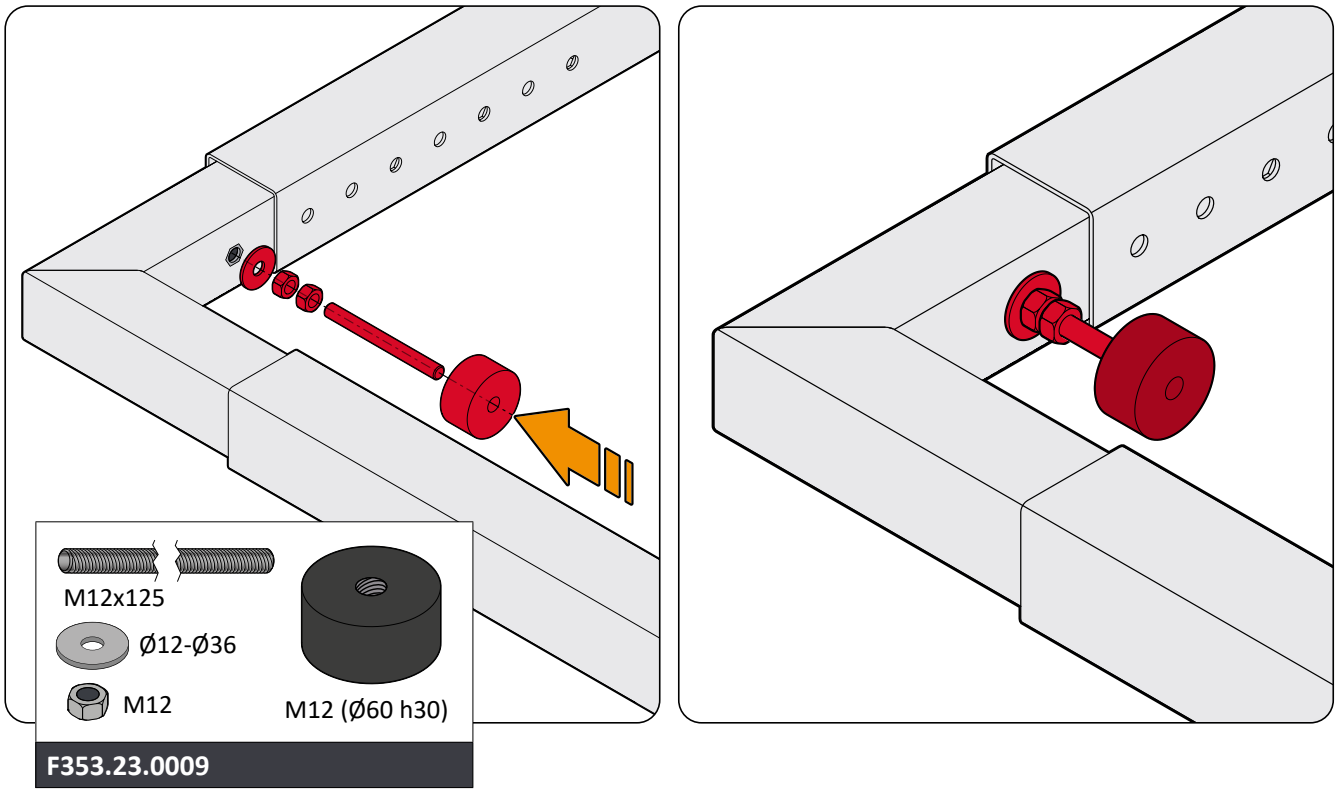
16.08. Anchoring ties (optional)

16.08.01 ANCHORING TIES - PREPARATION

- Pre-assemble the ties with the screws provided.



- Monter les pieds anti-vibration sur la traverse comme indiqué sur le dessin.

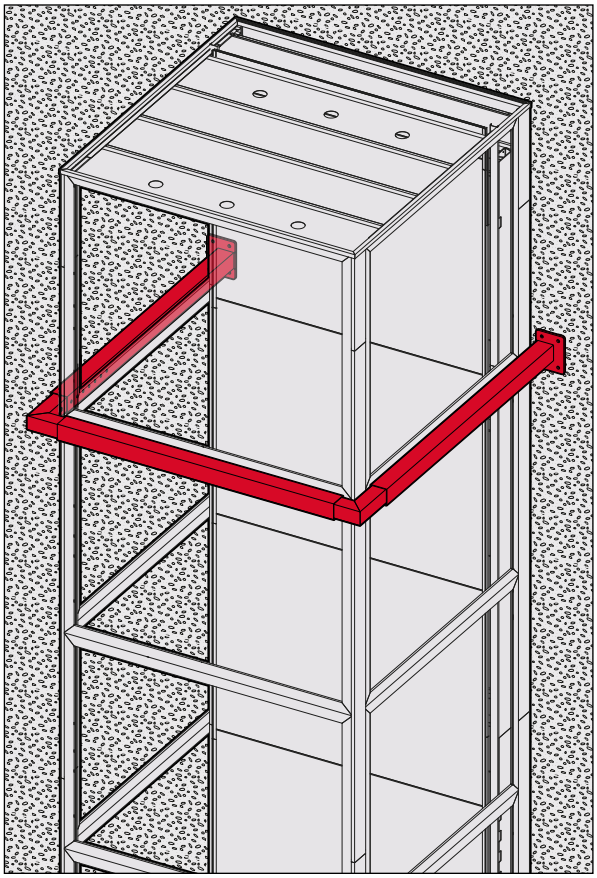


16.08.02 CHÂSSIS D'ANCRAGE - ANCRAGE AU MUR

IMPORTANT!

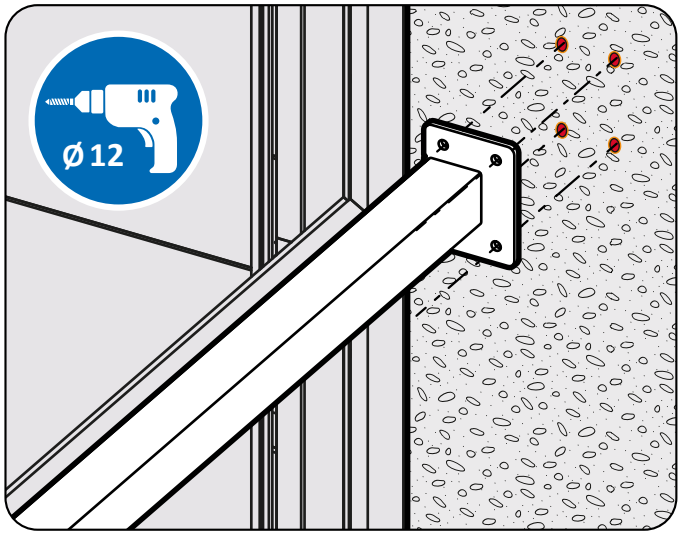
Refer to the PROJECT DRAWING to check the correct position and addembly of the ties.

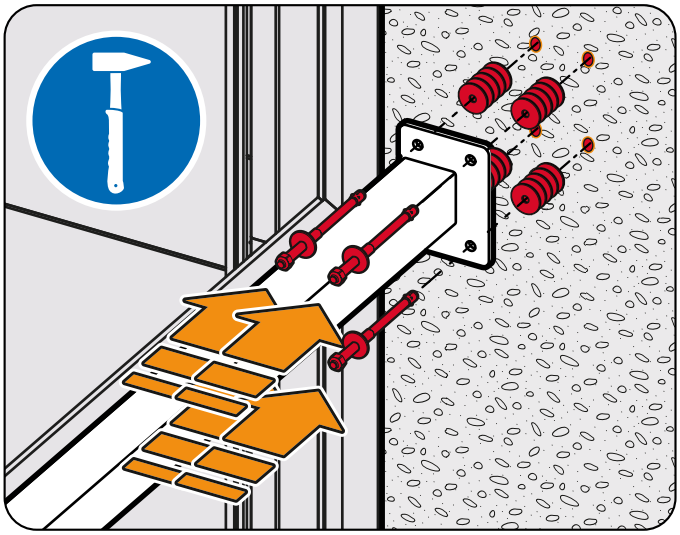
- Position the ties against the shell so that the brackets can reach.
- Drill the wall at a position corresponding to the holes in the brackets.
- Anchor the brackets with the plugs provided. If necessary, use shims on the rear to obtain correct vertical alignment.



M12x125

F353.23.0001





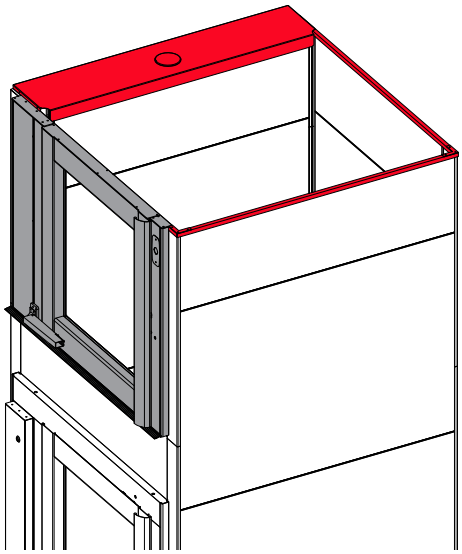
WARNING

FAILURE TO OBSERVE THE INSTRUCTIONS MAY COMPROMISE THE SAFETY OF THE STRUCTURE..

The anchoring illustrated here refers exclusively to the installation on a wall/slab of compact, non-cracked concrete (see "ANNEX 1- Anchoring to the shaft by means of plugs (mechanical or chemical)").

16.09. OPEN version

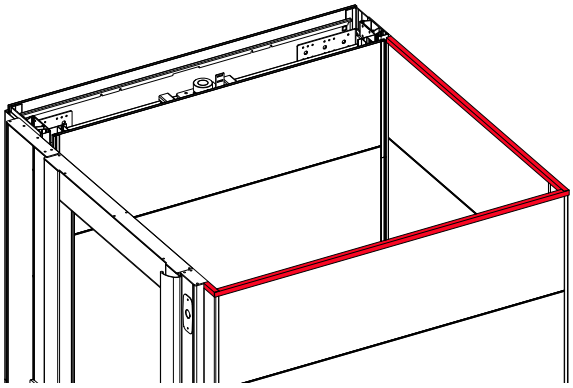
The "OPEN" version is characterized by an open structure (without roof for closing the shaft) lower than the standard model. At the top landing floor, the platform is equipped with a small gate (which replaces the landing door) having the same height as the structure.



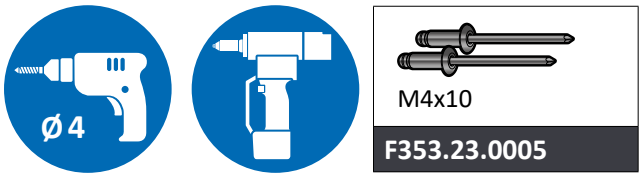
- Position the cover profiles so that they surround the infill panels and the guide rails.

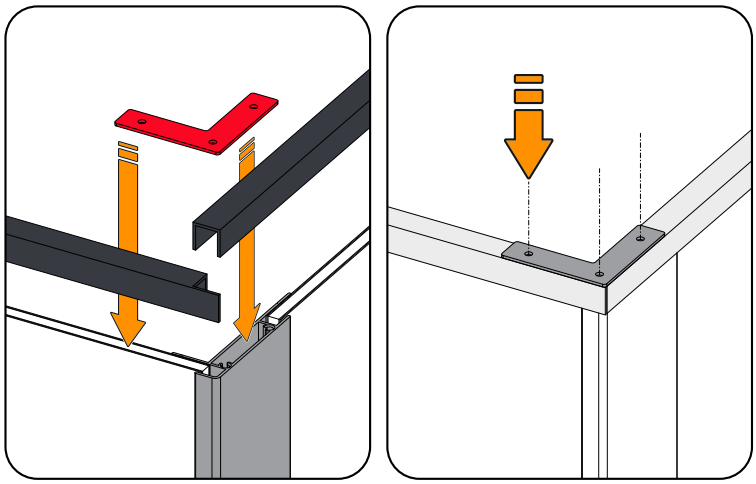
The shell closing profiles SHOULD BE CUT AT THE INSTALLATION SITE.

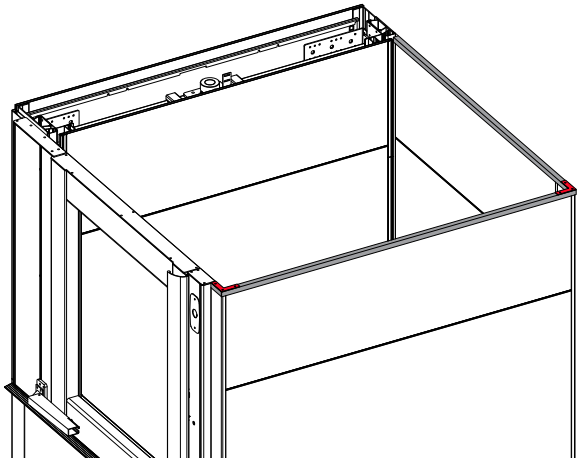
WEAR APPROPRIATE PPE



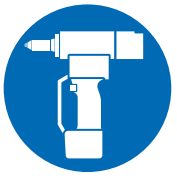
- Place the fastening L piece in the corners opposite to the mechanics.
- Drill at a position corresponding to the prearranged holes and assemble with the screws provided.

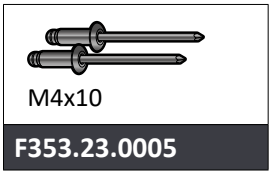


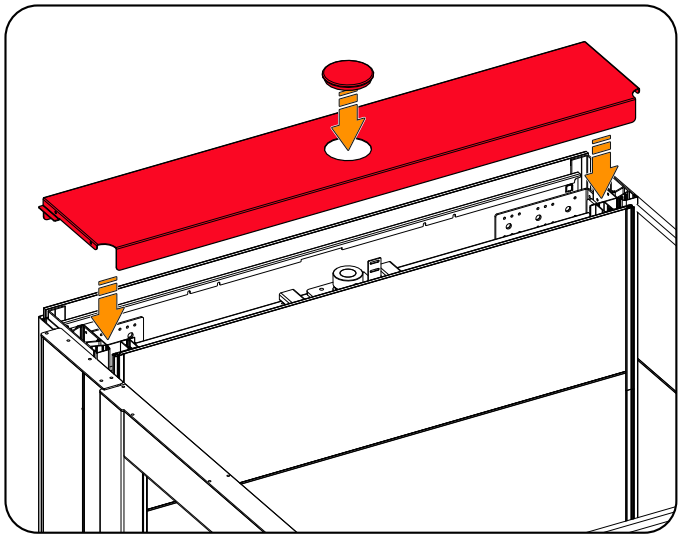


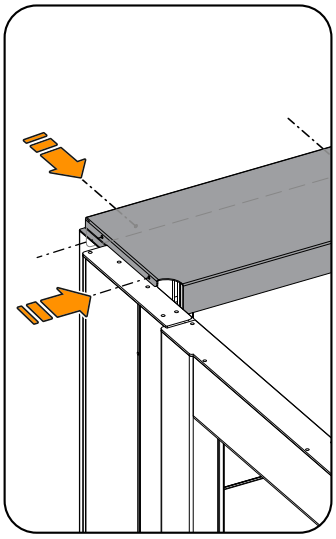


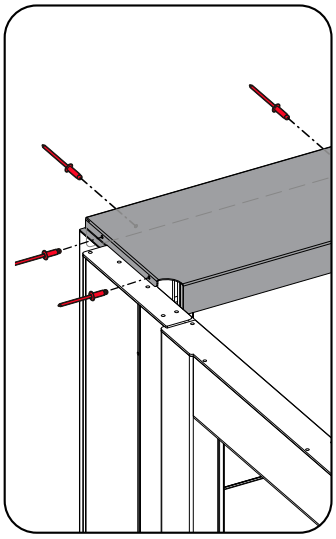
- Position the mechanical cover with the screw protection plug.
- Drill at a position corresponding to the prearranged holes and assemble with the screws provided.





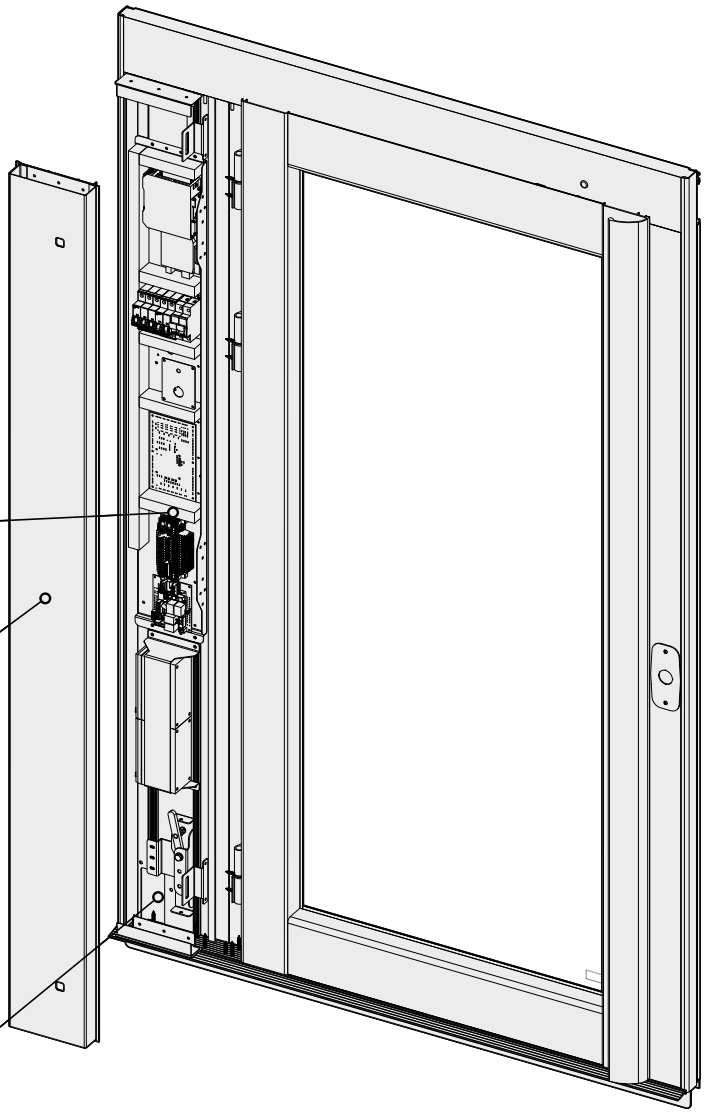






17. Safety signs to be applied on the platform lift

1 ☐ PLATFORM DRIVING FORCE SWITCH



PLATFORM ALARM

2 ☐

3 ☐ CAUTION! PLATFORM MACHINERY
ENTRANCE FORBIDDEN WITHOUT AUTHORIZATION

4 ☐ RECOMMENDED OIL FOR BEARINGS AND GEARS
Synthetic oil SW-40
Viscosity number ≥ 195
Operating temperature: + 5°C ÷ + 50°C

5 ☐

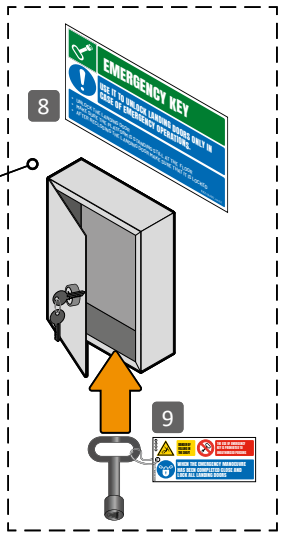
6 ☐ INSTRUCTIONS FOR EMERGENCY OPERATION

1) MAKE SURE ALL THE LANDING DOORS ARE CLOSED;
2) MAKE SURE THERE IS NO ONE INSIDE THE CAR; IN CASE THERE ARE PEOPLE INSIDE THE PLATFORM, REASSURE THEM AND WARN THEM TO KEEP CLEAR FROM THE ENTRANCES;
3) IDENTIFY PLATFORM POSITION;
4) ET "MAINTENANCE MODE" BY TURNING THE CENTRAL SELECTOR (CLOCKWISE);
5) PRESS THE "EMERGENCY" BUTTON IN ORDER TO MAKE THE PLATFORM MOVE UP OR DOWN TO THE NEAREST FLOOR;
6) LET PEOPLE COME OUT OF THE PLATFORM.

7 ☐ DANGER OF CRUSHING!
ACTIVATE THE SAFETY DEVICE THROUGH THE SPECIAL LEVER BEFORE ENTERING INTO THE PIT.

8 ☐ EMERGENCY KEY
USE IT TO UNLOCK LANDING DOORS ONLY IN CASE OF EMERGENCY OPERATIONS.
- UNLOCK THE LANDING DOOR
- MAKE SURE THE PLATFORM IS STANDING STILL AT THE FLOOR
- AFTER RECLOSING THE LANDING DOOR MAKE SURE THAT IT IS LOCKED

9 ☐ DANGER OF FALLING IN THE SHAFT
THE USE OF EMERGENCY KEY IS PROHIBITED TO UNAUTHORISED PERSONS
WHEN THE EMERGENCY MANOEUVRE HAS BEEN COMPLETED CLOSE AND LOCK ALL LANDING DOORS

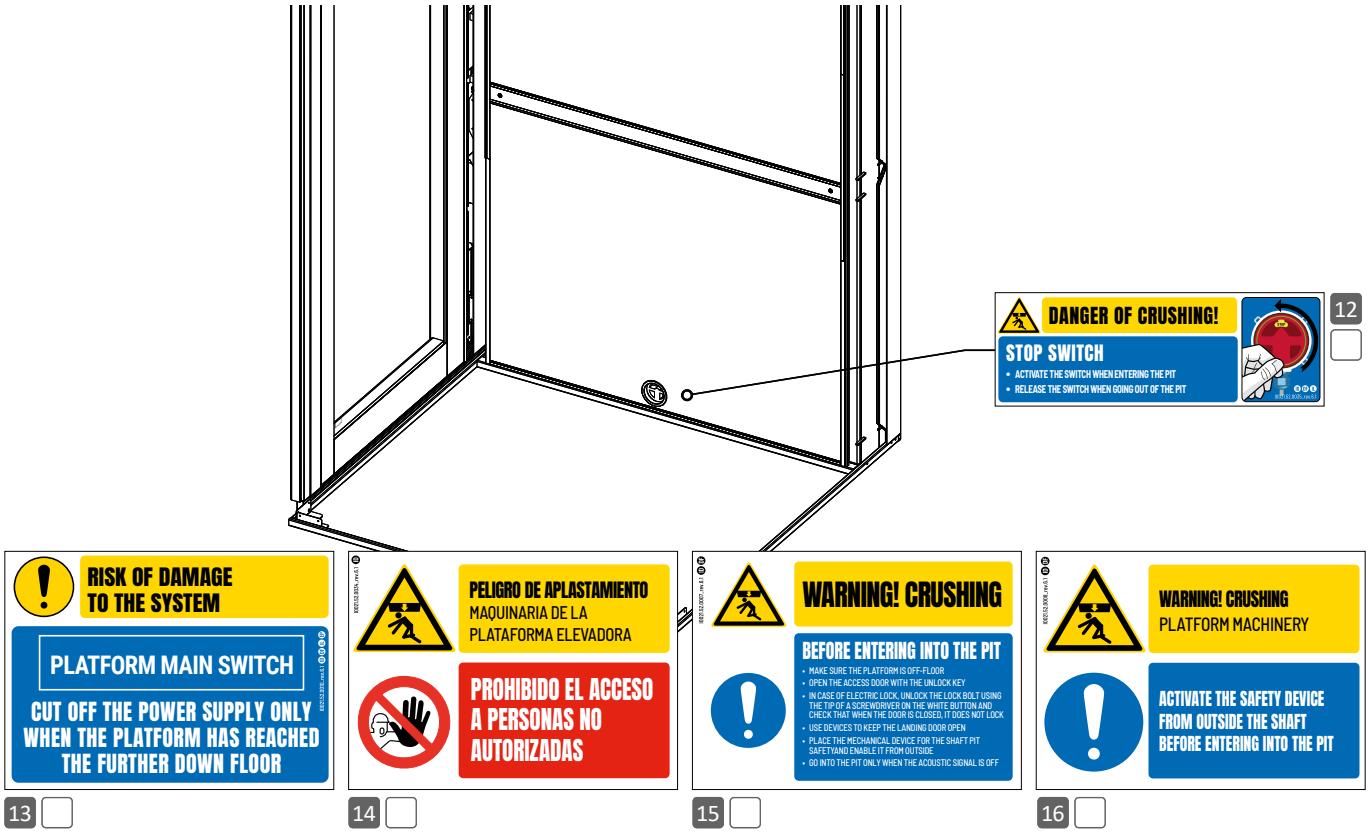


10 ☐

Apply on landing doors in case of platform installation in public buildings.

11 ☐

Apply on landing doors in case of platform out of service.



Apply inside the manual landing doors, on the lock side.

18. Final checks and adjustments

IMPORTANT!

Perform the checks and adjustments described in the manual IM.TEC.126 “FINAL CHECKS” to consider the installation of the system as completed.

19. Platform noise

The sources of platform noise are the motor, the brake, and the shoes that slide on the guide rails, particularly during lifting with full load (including maximum permissible overload).
The motor is located at the rear of the sling between the guide rails and behind the protective casing.
The user position is located inside the car, so the user is not directly subject to noise emissions from sources of noise disturbance. Despite this assumption, as precautionary measure, measurements were taken directly around the above sources, in an industrial environment without other machines in operation.
In the various configurations examined, all measurements resulted in sound pressure levels below 70dB(A).

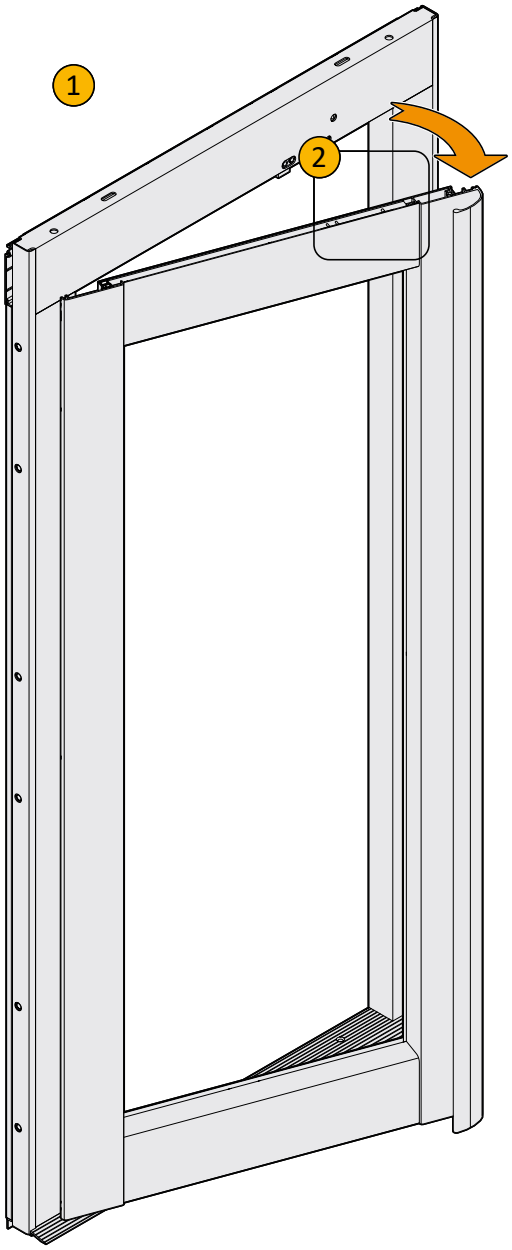
19.01. Landing door - adjustments

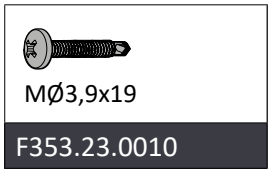
19.01.01 LANDING DOOR - STOP ADJUSTMENT

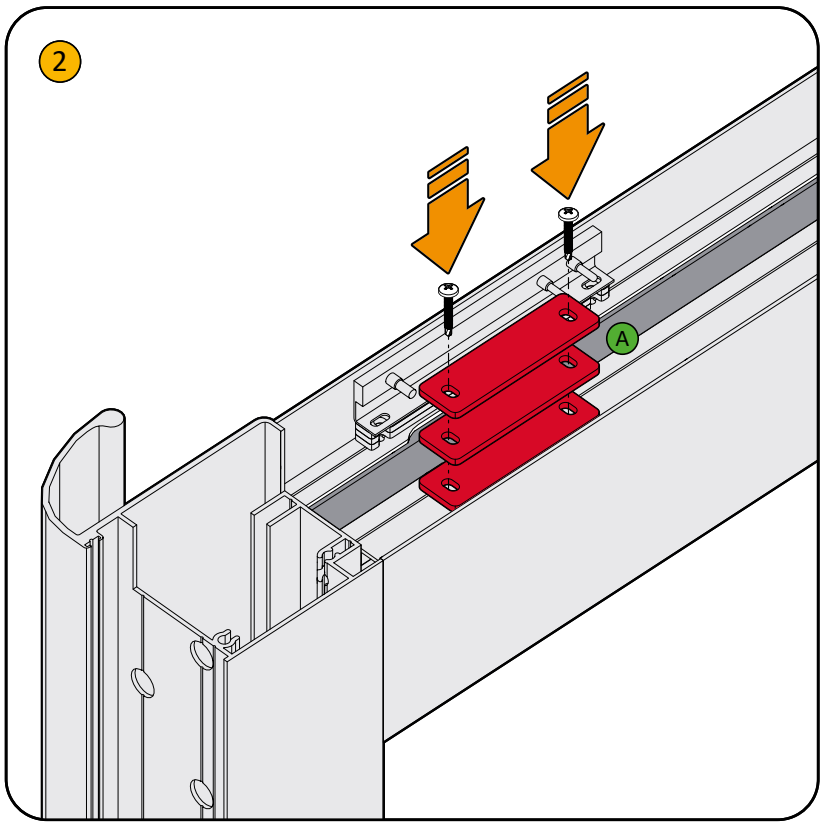
Should it be necessary to correct an "door stop mechanical clearance", KIT F353.23.0010 contains the equipment needed to carry out the operation as indicated below.

1 Open the door leaf

2 Fix the plates A with the self-drilling screws supplied in the kit at the slot in the guide rail.





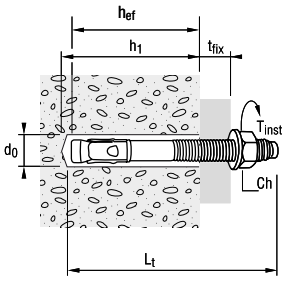


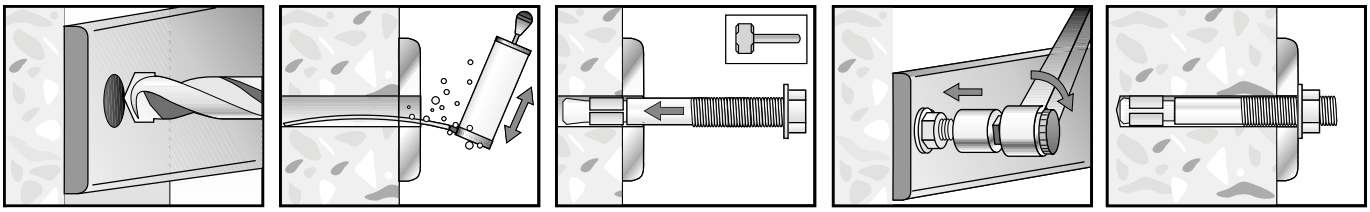
ANNEX 1
Anchoring to the shaft by means of plugs (mechanical or chemical)

SHAFT IN REINFORCED CONCRETE

Unless otherwise noted, all plugs are M10 in size and require a hole in the wall with 10 mm bit.

h_1	=	Hole minimum depth
L_t	=	Plug length
d_0	=	Hole diameter
t_{fix}	=	Fixable shim
t_{inst}	=	Tightening torque
Ch	=	Wrench
h_{ef}	=	Anchoring depth





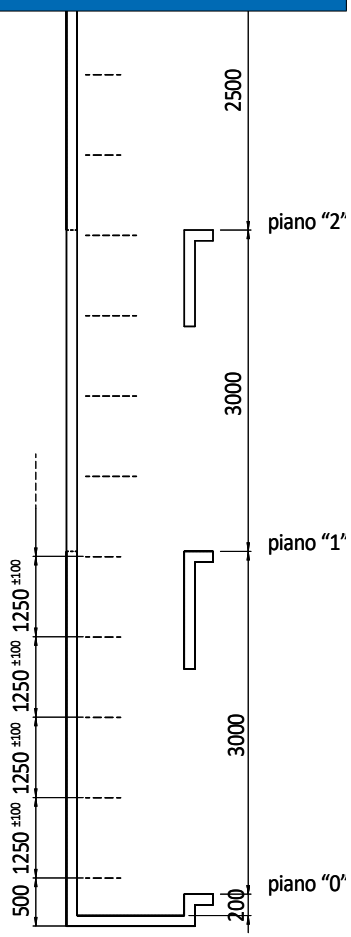
Carefully clean the hole before installation.

SHAFT IN LOAD-BEARING MASONRY

CAUTION

The anchoring of the jambs in shaft in masonry (**realized with elements suitable for the construction of load-bearing/ structural masonry***), requires a reduction of the bracket pitch in order to cope with the lower mechanical strength of the shaft wall.

* Building materials suitable for the realization of load-bearing walls also in seismic areas, calculated and realized in compliance with the law in force in the field in the installation sites (IT) - D.M. January 17, 2018 (Building technical standards 2018).



The bracket pitches are 1250 mm, starting from the pit bottom = 500 mm.

NOTICE

Always refer to the design drawing for installation.

CAUTION

For all the cases not covered by the described types, a site survey and a project by a qualified technician is necessary.

ANCHORING in LOAD-BEARING MASONRY SHAFT WITH SOLID, COMPACT ELEMENTS

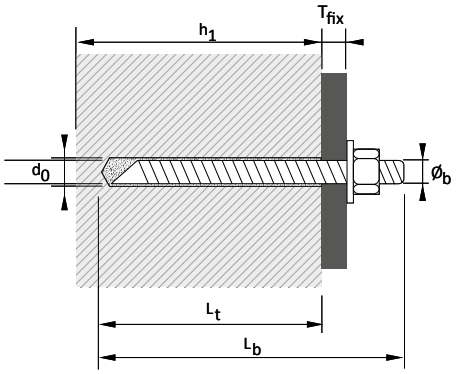
For the application of chemical anchors on load-bearing masonry with solid, compact elements, a special kit has been developed (code F350.23.0026V01), consisting of:

- 16 x galvanized THREADED RODS M10x130 with 45° cut (anti-rotation);
- 2 x CARTRIDGES (300 ml each) of injection anchor*, usable with normal silicone guns;
- 2 x Universal MIXERS ø9 mm in addition to the 4 supplied with the cartridges.

* Applicable for solid and hollow elements in cement, natural stone.

Each kit is suitable for the installation of 8 guide rail fixing brackets, which correspond on average to one stop. Therefore, by way of example, for a 3-stop system, 3 F350.23.0026V01 KITS will be required, with the positioning of the brackets according to the example drawing.

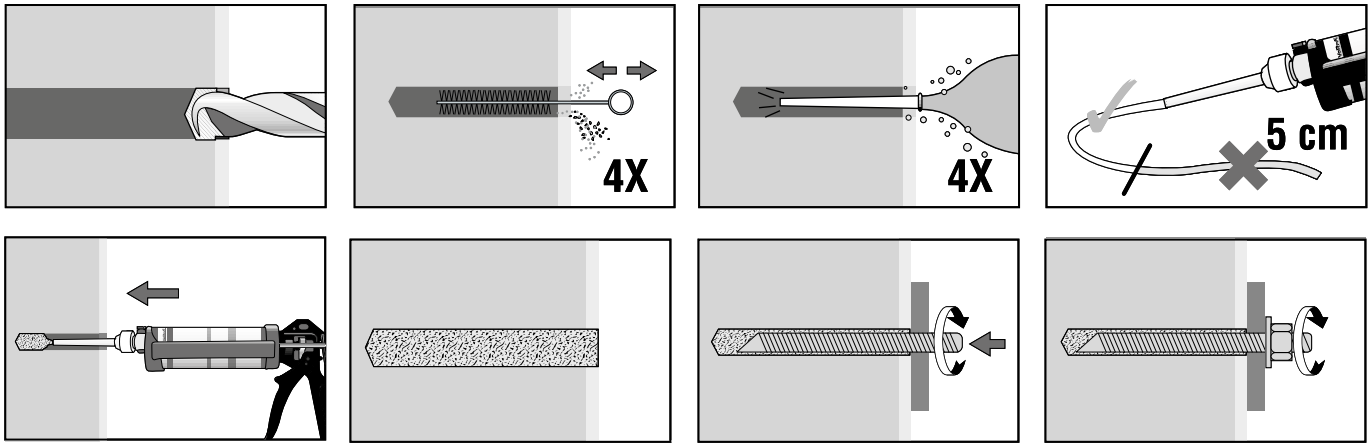
h_1	=	Hole minimum depth
L_b	=	Bar length
L_t	=	Plug length
d_0	=	Hole nominal diameter
$Ø_b$	=	Bar diameter
T_{fix}	=	Fixable shim



Calculation of the bar length:

$L_b = L_t + T_{fix}$

INSTALLATION SEQUENCE:



Carefully clean the hole before installation.

ANCHORAGE in a LOAD-BEARING MASONRY SHAFT WITH HOLLOW ELEMENTS

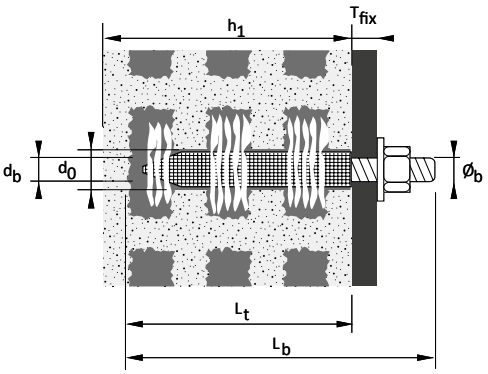
The special kit F350.23.0025V01 for chemical bolts application is composed of:

- n° 16 zinc plated THREADED RODS 45° cut (anti rotation) (M10x130 GALVANISHED CHEMSET STUD);
- n° 2 pcs 300 ml CARTRIDGES of ANCHORING ADHESIVE*, to be used with standard caulking guns (skeleton gun);
- n° 2 multipurpose MIXERS ø9 mm, additionally to the 4 mixers foreseen for the cartridges;
- n° 2 FINE METAL MESH SLEEVE ø16 mm, length 1 mt each.

* Valido per elementi in: calcestruzzo, pietra naturale, mattone pieno e semipieno.

Each kit is sufficient for 8 brackets, required for approx. 1 stop.
For instance, 3 F350.23.0025V01 kitskits are required for a 3 stops' lift, the brackets being positioned as per the sample drawing.

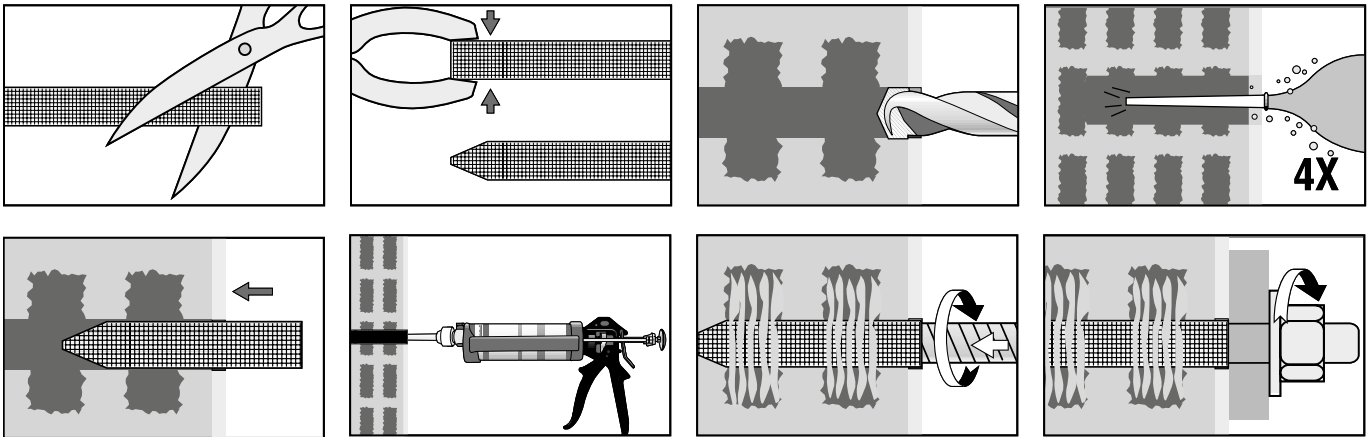
h_1	=	Minimum hole depth
L_b	=	Rods length
L_t	=	Dowel length
d_0	=	Hole diameter
d_b	=	Metal Mesh Sleeve diameter
$Ø_b$	=	Rods diameter
T_{fix}		Fixable thickness



Threaded rods length calculation:

$L_b = L_t + T_{fix}$

ASSEMBLY SEQUENCE



Carefully clean the hole before installation.

AREALIFTING®

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